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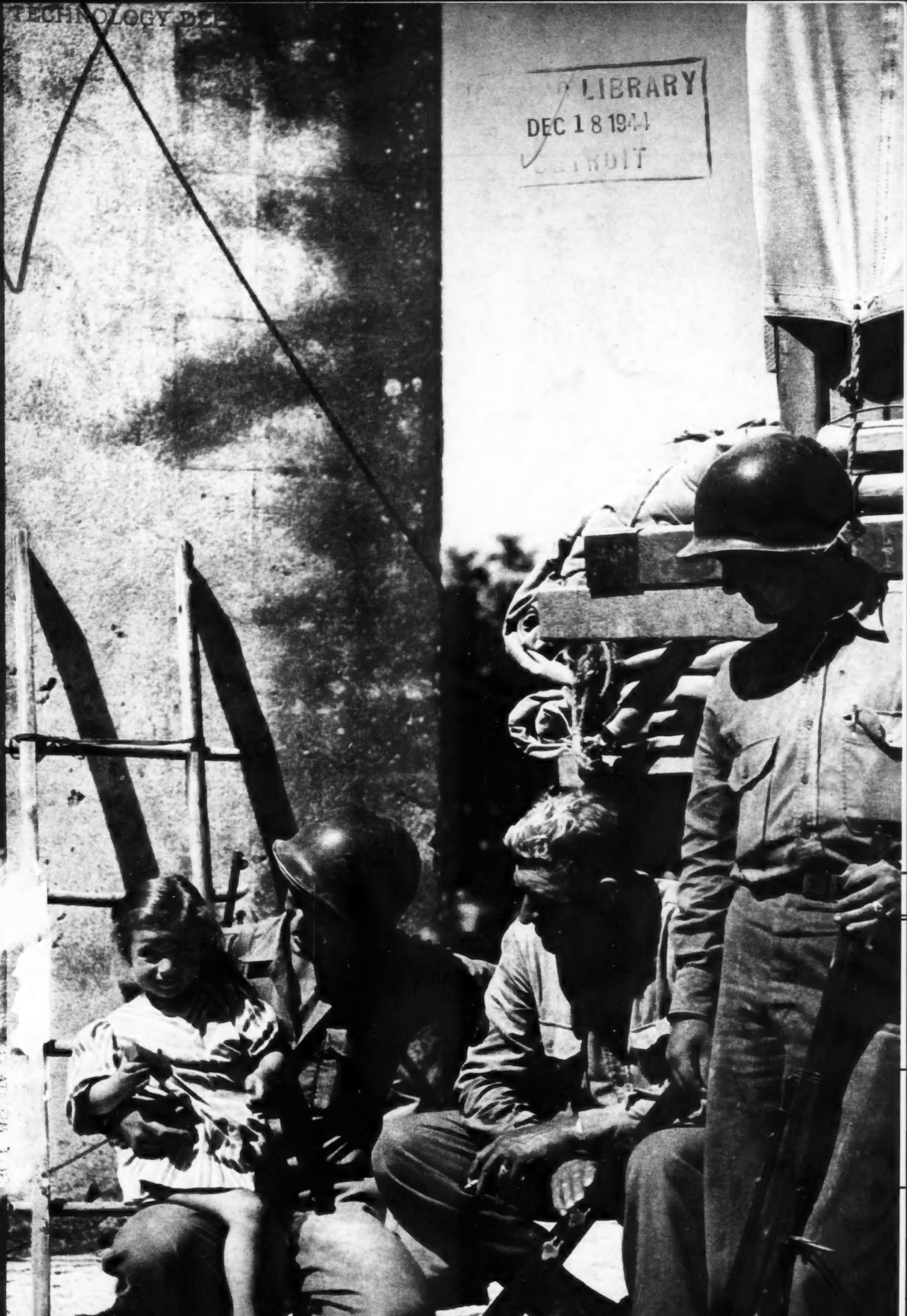

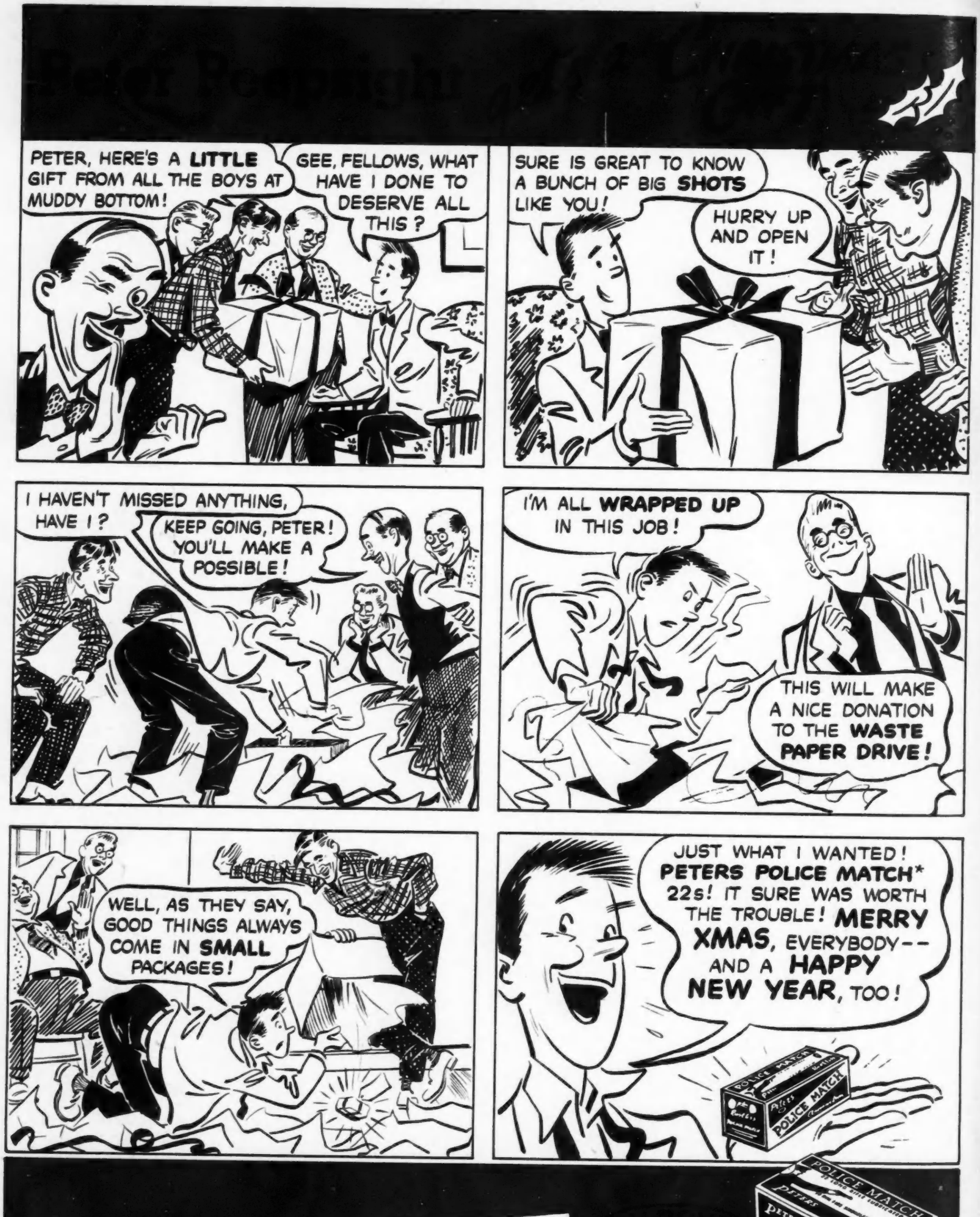
PETER, HERE'S A LITTLE GIFT FROM ALL THE BOYS AT MUDDY BOTTOM!
GEE, FELLOWS, WHAT HAVE I DONE TO DESERVE ALL THIS?
SURE IS GREAT TO KNOW A BUNCH OF BIG SHOTS LIKE YOU!
HURRY UP AND OPEN IT!
I HAVEN'T MISSED ANYTHING, HAVE I?
KEEP GOING, PETER! YOU'LL MAKE A POSSIBLE!
I'M ALL WRAPPED UP IN THIS JOB!
THIS WILL MAKE A NICE DONATION TO THE WASTE PAPER DRIVE!
WELL, AS THEY SAY, GOOD THINGS ALWAYS COME IN SMALL PACKAGES!
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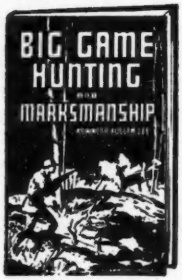
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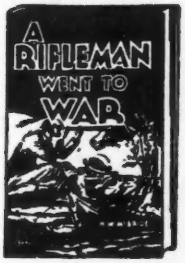
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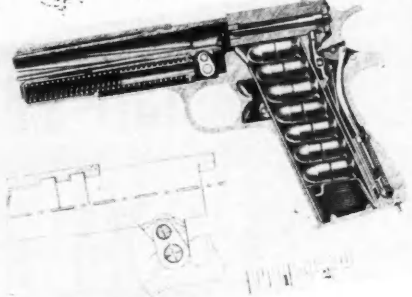

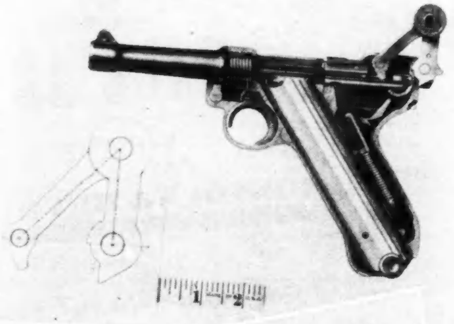

Here's What It Covers:

I

Evolution and Development

II

Pictorial Glossary

III

Pictures and technical data covering all modern pistols and revolvers, arranged by calibers as follows:

Caliber .22 Short; .22 Long; .22 Long Rifle; .22 W.R.F.; .22 Velodog; .25 Colt Automatic (6.5 mm. Browning); .30 (7.5 mm. Russian Nagant); .30 (7.62 mm.) Russian Tokarev Pistol: .30 (7.63 mm.) Mauser Pistol; .30 (7.65 mm.) Luger Pistol; .30 (7.65 mm.) Luger Carbine; .32 Smith & Wesson Revolver; .320 Webley Revolver (Interchangeable with obsolete .32 Colt Revolver); .32 Colt Police Positive (New Police); .32 Smith & Wesson Long Revolver; .32-20 Winchester Low velocity; .32 (7.65 mm. Browning) Colt Automatic Pistol; .380 (9 mm. Browning Short) Colt Automatic Pistol; .35 Smith & Wesson Automatic Pistol; 8 mm. Rast & Gasser (Austrian); 8 mm. Lebel (French); 8 mm. Nambu (Japanese); 9 mm. Japanese Revolver; 8 mm. Roth Steyr (Austrian); .38 Colt Police Positive (New Police); .38 Smith & Wesson; .38-200 British and .38 Super Police; .38 (9 mm. Browning Long) Automatic Pistol; .38 Colt Automatic Pistol; .38 Super Automatic Pistol; .38 Colt Short; .38 Long Colt; Cartridge Data for each: .38 S&W Special Mid Range; .38 S&W Special Mid Range Sharp Shoulder; .38 Colt Special; .38 Colt Special Hi-Speed; .38 S&W Special; .38 Special High Velocity; .38-44 S&W Special; .357 S&W Magnum; .354 (9 mm.) Luger Automatic Pistol; .355 (9 mm.) Bayard Long; .355 (9 mm.) Steyr; .38-40 Winchester Low Velocity; .41 Short Colt; .41 Long Colt; .354 (9 mm.) Glisenti; .40 (10.35 mm.) Italian; .428 (11 mm.) German 1888; .454 (11 mm.) French Model 1873; .44 Bull Dog: .44 Webley; .44 S&W Russian; .44 S&W Special; .44-40 Winchester Low Velocity; .45 Colt Revolver; .45 Auto-Rim; .45 Colt Automatic Pistol; .450 Webley; .455 Webley; .455 Webley Self Loading; .476 Edey.

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"I hear the war's practically over... back home!"

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But the war's not over for *him—not by a long sight!* And he's just one of a few million or more that will stay over there until they finish the bloody mess. Or kill time for a few months—or years—in some hospital.

What about *you?*

This is no time to relax. No time to forget the unfinished business. It's *still* your war, and it *still* costs a lot.

So dig down deep this time. Dig down till it hurts, and get yourself a hundred-dollar War Bond over and above any you now own—or are now purchasing. This 6th War Loan is every bit as important to our complete and final Victory as was the first.

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After all, you're safe and sound and home. That's worth another hundred-dollar bond to you, isn't it?

6th WAR LOAN

Buy at least one extra $100 War Bond today!

THE NATIONAL RIFLE ASSOCIATION OF AMERICA

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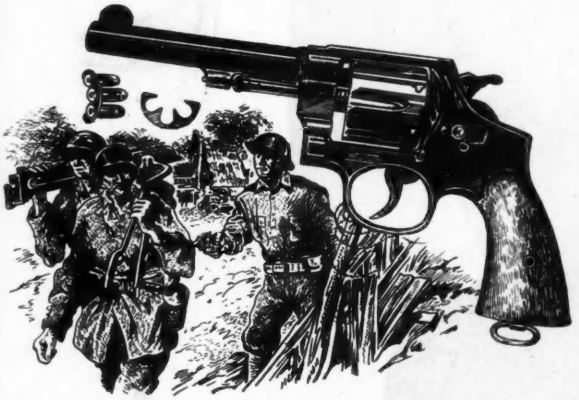
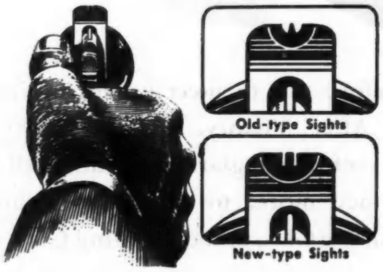
Do you Know your HANDGUN HISTORY?



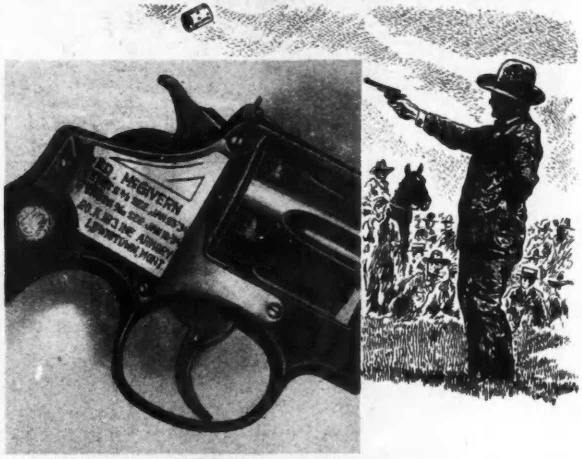
Q: WHAT INGENIOUS INVENTION DOUBLED HANDGUN OUTPUT DURING WORLD WAR I?

A: When the U. S. entered the first World War, the .45 auto cartridge was our standard sidearm ammunition. But its rimless case would not extract from a revolver, and pistol production could not fill the demand for desperately needed sidearms. The famous half-moon clip developed by Smith & Wesson solved that problem and made it possible for America to double its handarm production.



Q: WHO FIRST DEVELOPED SQUARE, PATRIDGE-TYPE SIGHTS FOR SERVICE REVOLVERS?

A: On April 1, 1922, Smith & Wesson brought out the first service revolvers with square-type sights which made fixed-sighted guns practically the equal of the finest target types for ease and accuracy of sighting. Since that time this feature has been imitated widely, but the non-light-reflecting quality of Smith & Wesson's rear sight design has never been duplicated.



Q: WHAT REVOLVERS HOLD THE HANDGUN "SPEED" RECORD?

A: For many years, Smith & Wesson's lock-work speed has been unchallenged. In the hands of Mr. Ed McGivern of Lewistown, Montana, Smith & Wesson Revolvers have performed such incredible feats as 5 accurately aimed shots in ½ second—a rate of fire comparable to a standard Army machine gun.

WATCH

SMITH & WESSON

SPRINGFIELD 2, MASS.

FOR FIRSTS IN FIREARMS

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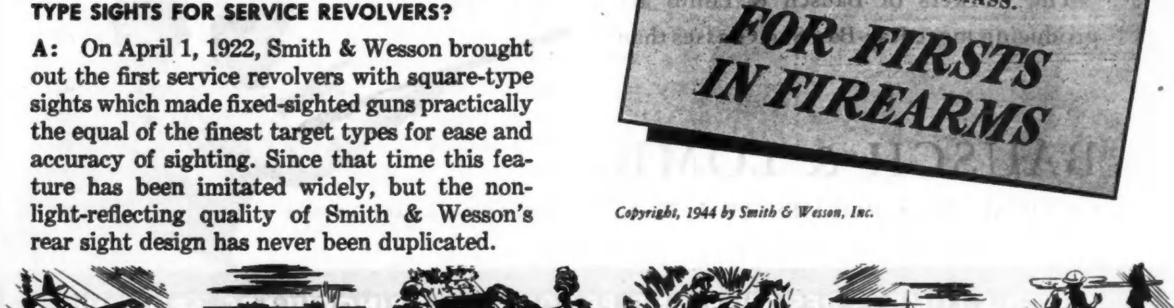

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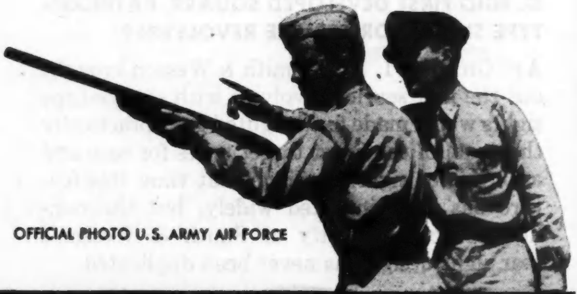

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An Editorial

Traditions Plus Training

SINCE December, 1941, the core of all NRA activities has been the Preinduction Small Arms Training Program. That program was the natural thing for us to do. By reason of our traditions and our training, we were peculiarly fitted to carry on that work. It was a part tailor-made for us in the war effort.

But it was fortunate for several million young Americans that the National Rifle Association *had* those traditions and that training! For, in spite of the sincere efforts of General Marshall and the High Command, instruction in small-arms marksmanship was tragically inadequate once the rapid expansion of our armed forces got under way. Neither rapidly trained officers nor quickly promoted noncoms had more than a superficial knowledge of how to shoot. They knew little about the underlying principles of marksmanship essential to the training of marksmen.

That was nobody's fault. It was just America going to war. America, where "every man is a born rifleman," with a million of them ready to spring to arms overnight! America, where too many people thought that the rifle was no longer of much value in a war which they believed would be dominated by mechanical marvels!

No one who saw the NRA schools in operation—no one who has read the letters which have come back from men in the armed forces—can ever doubt the value of the Preinduction Training Program. Men so trained have made use of that training themselves and have passed it along in other "classes," formal and informal, held all over the world, teaching the rudiments of gun handling to yet other men who, in many cases, had been sent to foreign fronts carrying weapons they did not even know how to load!

These "classes" do not show on our NRA record of achievement. The dead Japs and dead Nazis who fell and are falling before the aimed fire of men who never fired a rifle before they entered Preinduction Training Classes—entitle us, back home, to no medals. And that is as it should be. . . . But we can cherish the deep-down glowing satisfaction of knowing that we helped. And we can be very sure that the skills and traditions of fine marksmanship fostered and kept alive by the riflemen of America are playing their full part in the attainment of the victory of Allied arms.

That phase is past now. As the old year ends, we look to the new year with high hope that it will bring an end to war. But war's end marks merely another milestone in the history of American marksmanship. War's end will mark the beginning of a vast revival of sport and competitive shooting throughout this nation and throughout the world. It is our job, as shooters, first, to *guard* our right (and the rights of men now busy at another job) to shoot, and to prevent the infringement of that right by fanatic laws—and, second, to *guide* the development of that post-war revival of shooting interest into such channels that the traditions of American marksmanship "may not perish from the earth."

Peace, when it comes, is not the end. It is only the beginning!

The
AMERICAN RIFLEMAN

Official Journal of The National Rifle Association of America

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DECEMBER

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"MUTINY ON THE BOUNTY"

By CAPT. K. K. HANSEN

How would you like to go deer hunting where the open season is twelve months long, where you'll see a dozen deer in a day at a hundred yards or less, and where they're considered such a pest that you're encouraged to drop does as well as bucks?

If you can't wait, you'll have to join the Army and contrive to be sent to New Caledonia. Or, if that's too complicated, just remember that Noumea, Nouvelle Caledonie, is a way station on Pan-American's peacetime route to Australia, and plan a stopover here on your next trip "down under."

What the jack rabbit is to Australia, the deer is to New Caledonia. When the French first settled the island, ninety-nine years ago, the only native mammals were the Melanesian indigenes and a bat with a three-foot wingspread—the famed fruit-eating flying fox. Today, the island boasts wild boar, duck, and two-pound pigeons—and apologizes for the bats, rats, wild dogs and cats, and deer.

Eight hundred miles east of the northeast corner of Australia, New Caledonia is about two hundred and fifty miles long, averages thirty miles in width. Mountains rise to 5,000 feet in the center of the island, paralleled by lesser ranges to both coasts.

Like Australia, New Caledonia started as a penal colony, but, unlike the British, who repented at a comparatively early date, the French continued to use the island as a more pleasant alternative to Devil's Island until 1894. And, unlike the Australians, who drew as severe a color line as possible with their aborigines, the Caledonians intermarried widely with the Kanakas, a development mitigated only by the fact that the Melanesian *canaque,* although as black, was several rungs higher on civilization's ladder than the Australian *abo.* Most natives and the half-and-quarter-castes today are a strikingly handsome people.

Free French colonists came to the island too, of course, attracted by the promise New Caledonia gave of cornering the beef and hide trade of the Southwest Pacific. One of these French ranchers, "*broussards,*" returned from a visit to the Philippines with a pair of deer. Another brought a buck and a doe from New Zealand. Australia and New Zealand cornered the cattle market, but the New Caledonia deer throve.

The deer ran with cattle, turned the cattle wild and took them to the mountains. Pigs, cats, and dogs, as well as cattle, turned wild in the big empty island, but the deer had a head start and the climate, comparable to that of Hawaii, was ideal for them. They bred the year round. In the dry season, they jumped fences and ruined gardens. The fancy four-inch, foot-long cucumbers which grew in the fertile volcanic soil were their favorite food. They even taught their bovine friends to jump fence and eat *concombres.*

They became such a pest that a bounty was established, payable upon presentation of a deer tail. The *broussards* and the natives hunted them with packs of dogs, trained to herd the deer into rocky coastal coves and ponds and to hold them at bay until they could be dispatched with a minimum of ammunition, largely by club and knife. Deer hides became a major item of export, along with the island's chrome, nickel, and iron.

Then the Japs, having swallowed the Solomons, eyed New Caledonia as a potential base from which to cut the Allied life line to Australia. The Governor inclined toward Vichy, but the bulk of the citizenry, mindful of the fate of Indo-China, opposed him. When a Fighting French sloop showed up in Noumea harbor, an impasse developed, for the *gendarmerie* and colonial troops were taking orders from the Governor. But

An American infantry officer finds that hunters' paradise—where there's a season twelve months long; where there's no limit; and where you don't have to wait to "count his spikes" before you shoot! . . . but it's "a far piece," boys! . . . In New Caledonia.

the *broussards* marched from the mountains with their deer rifles and forced the issue. The Governor retired and a representative of General DeGaulle landed, took over, and invited aid from the Americans and Anzacs in garrisoning the island, which became an invaluable base for the American campaigns in the Solomons.

Yanks waiting in New Caledonia for their roles in these campaigns were getting some mighty intensive training and not much relaxation—the population of Noumea, at the southern end of the island, being only 12,000, largely natives, Javanese, and Tonkinese from Indo-China. So it occurred to Higher Command that shooting deer in the bush might be good training for shooting Japs in the jungle, and more realistic than repeated range firing. Arrangements were made for G.I.'s to get in a little hunting.

Permits from one's commanding officer, the local *gendarmerie*, and the property owner concerned were necessary, and limited amounts of ammunition were issued. Reverse lend-lease from Australia and New Zealand had enabled mess sergeants to set a pretty fair table, but fresh venison was a welcome change from the Anzac versions of Spam and Vienna sausage. Every outfit even had a pet fawn or two. But the French mutinied on the bounty, and you could hardly blame them.

One Sunday morning, Lieutenant Colonel William H. Allen, Jr., of Santa Barbara, California, and I went out for our first try for New Caledonia deer, with Captain Bruce Moore of San Antonio, Texas, and Private Creed Larrimore of Mule Creek, New Mexico. We needed no permits from the gendarmes, for we were guests of Citizen Arsene Pellardi and were to hunt on his land.

M. Pellardi's hectares numbered 5,000, not ten kilometers from our bivouac. His genuine graciousness as a host evidenced his Franco-Italian forbears even as his swarthy complexion betrayed his Melanesian maternal line. A sergeant of colonial troops in France in World War I, he "had" some English. It was, at any rate, better than our French.

We were to hunt in a pocket a few kilometers farther up the island, so M. Pellardi's cousin and three sons piled into our truck with us while he set out on horseback with his dogs. There were eight of them, fair-sized brutes of such dubious lineage that you could say for certain only that they were dogs. One was a perfect replica of a Georgia hound, except that he had the coat and disposition of a Doberman. Another looked suspiciously like an Australian dingo.

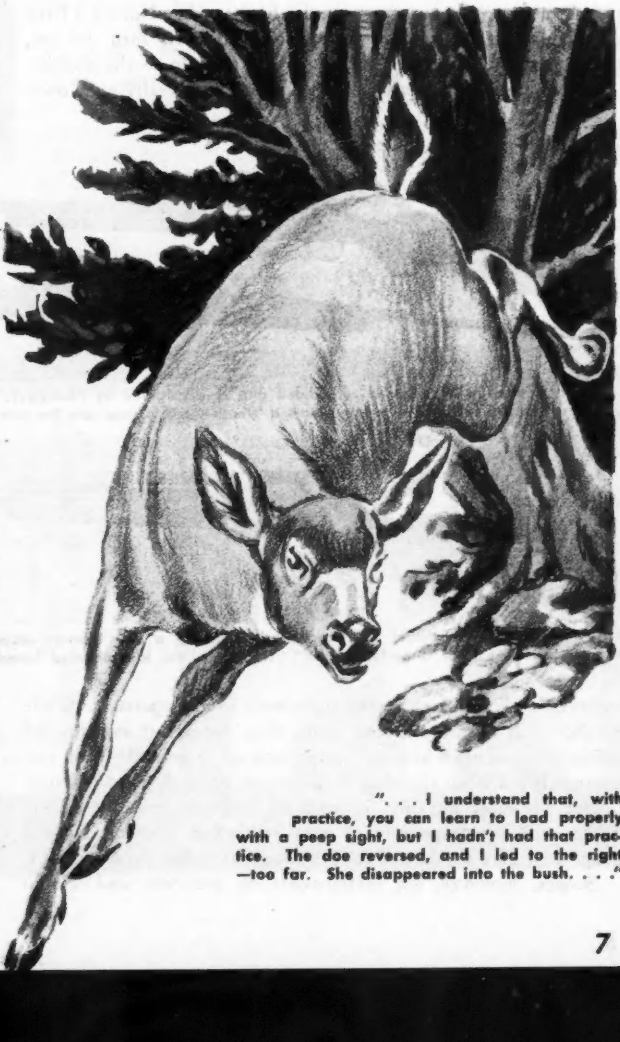
Our route with the truck was so circuitous that M. Pellardi met us at the mouth of the pocket. This pocket, on the land side of the coastal hills, was Y-shaped, branching into two steep canyons, with the stem and each branch about half a mile long. The Colonel and Larrimore drew posts on the slopes on either side of the stem, and Captain Moore and myself took the nose so that we could cover either canyon. It went up at a 45-degree angle, so I stopped about halfway up and let Moore go on to the top! But even from halfway up, I had a grandstand seat—and I do mean seat, after that climb—for the proceedings.

M. Pellardi started the dogs up the bottom along the stem of the Y, whistling them along. No American could handle Caledonian deerhounds; when you whistle, they disappear into the bush. To call them, you give an angry shout that would send any English-speaking hound into hiding.

I was skeptical, for we had crashed up a path through that bottom without jumping anything. The absence of small game and the comparative scarcity of birds and insects in New Caledonia, coupled with the tortured white trunks of the ever-present *niaouli* trees (a paper-barked sort of eucalyptus) gave the landscape a lifeless, lost-world effect. The bush in the bottom was lantana, thinning into a variety of mimosa with sharp thorns. Lantana at home is a pretty little decorative shrub around sixteen inches high; in New Caledonia it grows, thickly matted, to ten feet. Deer will lie bedded down in it and calmly watch you go by on the few paths. It takes a dog to jump them.

Not five minutes after Cousin Baptiste and I sat down, a hound gave tongue in the bush below me. I leaped to my feet and released the magazine catch on my carbine, then dove into the grass for the magazine. I rammed it back in and released the safety, for which my forefinger

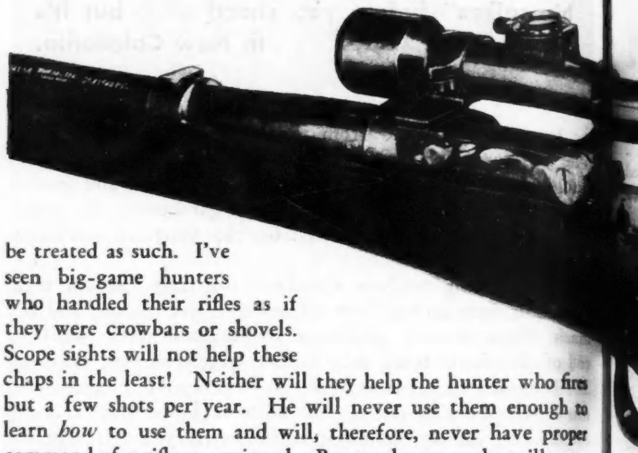
(Continued on page 13)



". . . I understand that, with practice, you can learn to lead properly with a peep sight, but I hadn't had that practice. The doe reversed, and I led to the right—too far. She disappeared into the bush. . . ."

HUNTING SCOPES..

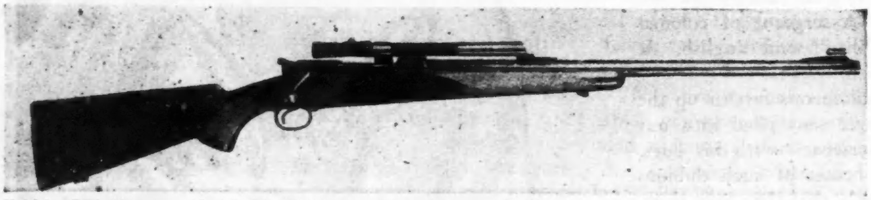
(PART ONE—THE SCOPE)



FOR MOST TYPES of big-game hunting, the hunting-type telescope sight is a very great advantage. For all long-range shooting at such game as antelope, mule deer, sheep, goat, and caribou, as well as at wolves and coyotes, it is almost a necessity. For still hunting in timber it is, again, a great aid to the accurate placing of shots.

There are, however, certain conditions under which the scope sight is a decided disadvantage; and even though such conditions are rarely encountered, it is well to state both sides of the case. For shooting at very close ranges—as in dense jungle or brush—and especially where charging dangerous game is involved, the scope is a handicap. It is very disconcerting to look through a scope at a charging grizzly at such close range that you can see nothing but bear in the field of view—with no way of telling whether the part of the bear you see is or is not a proper spot for a stopping bullet! Such shots can be made accurately, more quickly, and with more certainty with good open sights. The same is true, in my opinion, where the hunting involves shots at fast-moving game at ranges under fifty yards. During a hard downpour of rain, too, or when shooting directly into the sun, the scope may be a hindrance rather than a help to the shooter.

A pair of Model 70 Winchesters remodeled and scope sighted by Pachmayr. Rifle at top is mounted with a Lyman Alaskan scope; rifle below wears a Weaver 330. These are fine examples of expert custom work.



Keith's .375 Magnum Model 70 Winchester, mounting a 330 Weaver scope on a Stith mount. Keith's own appraisal is, "It's a perfect outfit!" Note how the low-mounted blends with the lines of the rifle.

In such cases, a hunter is better equipped with really good open sights or with a first-class peep sight with a large aperture. While neither is as accurate as the scope, they do permit instant and sufficiently accurate aim on any portion of an animal—both important items when shooting at dangerous game at close quarters.

But for most hunting, in open or fairly open country, and for a considerable portion of average timber shooting, a good scope will give far better results than any other type of sight.

Scopes, however, are instruments of precision and should be treated as such. I've seen big-game hunters who handled their rifles as if they were crowbars or shovels. Scope sights will not help these chaps in the least! Neither will they help the hunter who fires but a few shots per year. He will never use them enough to learn *how* to use them and will, therefore, never have proper command of a rifle so equipped. But to the man who will practice conscientiously, who will really *learn* his rifle, and who will accord it proper care, the scope will prove a real advantage. The older shooter, who finds that his open sights (or his front sight, if he uses a peep) are blurred, will find that a scope, properly focused, will enable him to shoot as accurately as ever; in many cases, more accurately than ever before. No man can shoot any better than he can see, and the scope does permit accurate aim long after the light or the sight is too dim for any type of iron sights.

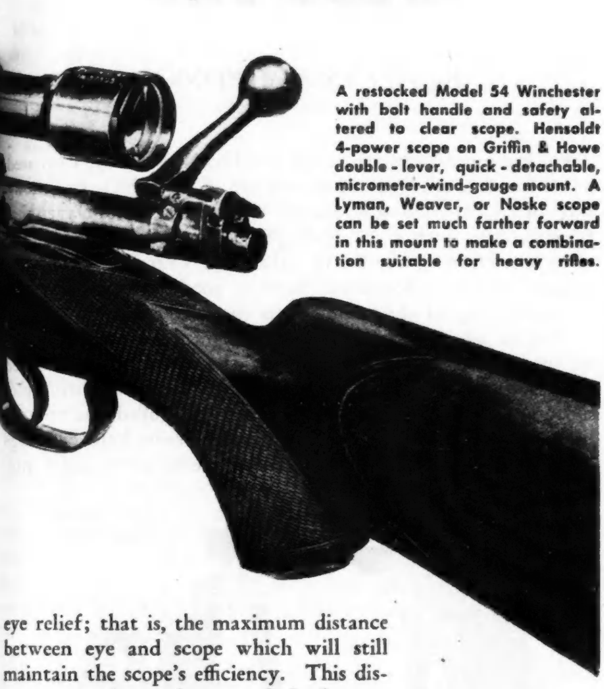
Good scope sights also permit picking out game in dense timber or brush, identifying it certainly and thus preventing many hunting accidents. They also permit certain placing of shots on game animals that are so far away that the usual front sight would practically cover them, thus increasing the percentage of clean one-shot kills.

In selecting a proper hunting scope only those of large field need be considered. Given a scope with adequate field of vision the greater the resolving power and brilliance the better the instrument. The Lyman Alaskan, the Weaver 330, and the Noske Type A are the best hunting scopes made in this country today. There are many fine foreign makes, such as the excellent Zeiss and Hensoldt lines, but these are not superior to our own domestic scopes. Size and weight are also to be considered and the small, short, light scopes are best, so long as field of view and resolving power are retained. Scopes of small diameter mount closer to the bore of the rifle, hence entail less change in stocks.

The next point to consider in choosing a hunting scope is

..AND MOUNTS

By ELMER KEITH



A restocked Model 54 Winchester with bolt handle and safety altered to clear scope. Hensoldt 4-power scope on Griffin & Howe double-lever, quick-detachable, micrometer-wind-gauge mount. A Lyman, Weaver, or Noske scope can be set much farther forward in this mount to make a combination suitable for heavy rifles.

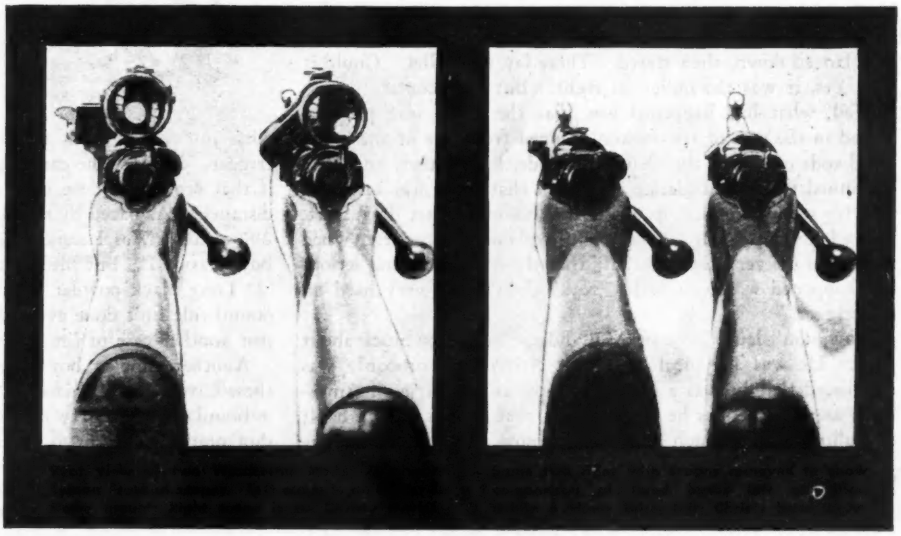
eye relief; that is, the maximum distance between eye and scope which will still maintain the scope's efficiency. This distance must be ample to preclude the possibility of being struck in the eye or on the eyebrow by the scope when the rifle is in recoil. This is most apt to occur when shooting up a steep slope, when the eye is farther forward than usual on the comb. Too, a long eye relief permits mounting the scope ahead of the bolt lift, so that no alteration of the bolt is necessary. The three American-made scopes mentioned above are all excellent in this respect, having eye relief of five inches or more.

Do not expect to get best results from a finely accurate rifle with a cheap scope intended only for small-bore plinking rifles. Neither should you expect good results with cheap, improperly made or installed mounts. Such cheap, poorly designed mounts have been the main cause of much dissatisfaction among scope users. You get about what you pay for in this world, in scopes and scope mounts, as in other things.

Next comes the matter of magnification or power. Many years of experience on about all American game have convinced me that around three-power magnification is best for all-around hunting use. For rest or prone shooting in open country, a four- or five-power magnification (commonly written 4X, 5X) would be best; but the advantages gained there are more than offset by the disadvantages such a scope has on close-up shots at running game. The higher the power, the more the natural tremor of the piece is magnified visually as one attempts to hold on a target. Prone, with sling, you can hold a five-power scope dead still on a game animal at 300 yards; but it does not follow that you can hold that same five-power scope still, offhand, on an animal at 100 yards when you are panting and your heart is thumping after a steep climb. The greater the magnification, the shorter the eye relief and the smaller the field of view. And, since you can't have everything, it is best to sacrifice something in magnification in order to get a large field of view, brilliance, resolving power, and long eye relief. This spells a scope of not over three-power—unless, of course, it is possible to get one of the fine Zeiss or Ross scopes of variable power.

(Battle conditions are not so very different from big-game-hunting conditions, and the Army has selected the Lyman Alaskan and Weaver 330 for the 1903 A4 sniper's rifle.)

As to the position of the scope on the rifle—it should be mounted as low as possible to enable the shooter to establish proper contact with his cheek on the comb of the stock and at the same time bring his eye in correct position to center the scope. Shooting positions resulting from high mounting of the scope are not comfortable, do not permit hard accurate holding, and produce results often inferior to those obtained with iron sights. The scope should be centered over the bore except on top-ejection rifles such as the Remington Auto, the Model 71 .348 Winchester, etc. On such arms scopes must be mounted off-center to the left; but, if mounted low and with the addition of a good cheek pad on *(Continued on page 27)*



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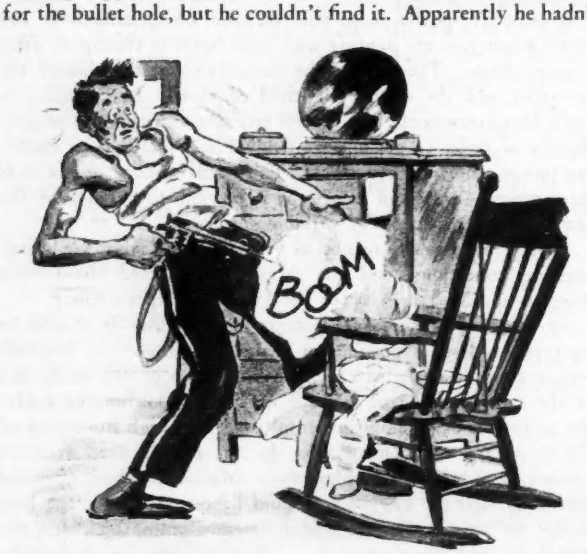
MYSTERY LEAD

By ALLYN H. TEDMON

ONCE UPON A TIME, and this is no fairy tale, A. B., a friend of mine, then a young fellow, was dressing for a dinner party and was fishing one of those old-style choker collars from his dresser drawer. Suddenly, his interest in collars shifted to guns. There at his finger tips lay a fine, loaded Smith & Wesson .38 caliber revolver, the pride of his heart, and he simply could not resist taking the gun up to admire and fondle it.

As he fingered and pawed it over he gingerly pulled the trigger just a little to see how it was working. But once he pulled it just a little too much and—Wham! Boom! Jehosaphat! Did he jump! And where'd that bullet go?

He gasped for breath, dropped the gun back into the drawer, and stood listening intently for a scream from some punctured victim. But nothing happened. Five minutes went by, and still nothing happened. Meantime, he frantically searched the floor for the bullet hole, but he couldn't find it. Apparently he hadn't killed anybody, but what the ceiling of the room below looked like he was afraid to discover so he proceeded with his dressing.



Finally, he picked up his stiff-bosom dress shirt from the seat of the old-style rocking chair that stood close by, and as he pulled it on over his head—kerplunk. Something hit the floor. He glanced down, then stared. There lay the bullet. Could it be? Yes, it was the bullet all right. But how come?

Well, what had happened was that the pesky lead pill had landed in the seat of the rocker, glanced from one of the hardwood rods of which the chair was made, hit another, and then continued to hit and glance around in that chair seat until, its velocity spent, it ended up in the stiff bosom of that dress shirt. The whole thing was satisfactorily explained, of course, when A. B. told me very confidentially that the reason nothing serious had happened was because he "really didn't pull very hard on the trigger."

Now, don't laugh because A. B. did not know too much about guns. He was a typical American citizen and probably was convinced that he was a born rifle shot, as of course all Americans are; and besides he didn't know that bullets have a habit of pulling off just such stunts every now and then. He, like a lot of other folk, didn't know that every bullet is "mystery lead" the instant it leaves a gun muzzle. But he found out—as a lot of us eventually do!

For instance: Years ago, when a kid in New Jersey, I squared off to knock a crow out of the tip top of a big hickory, a long way off. The rifle was one of those cute little Davenport Brownie rifles with a .22 black-powder Long cartridge in the chamber. Aiming carefully, offhand of course, I pulled the trigger. As often happened "in them good old days," the discouraging snap of the hammer was the only response.

"Try it again," advised one of the men standing near me. So, as was our custom, I withdrew the cartridge and turned the head so as to present a fresh spot of the rim to the firing pin. Once again, in my best form, I aimed and pulled the trigger; but again it was no go. Quite disgusted, I turned the cartridge once more, and this time I yanked the rifle to my shoulder and, with just a half peek through the Lyman rear, I jerked the trigger. Bang! The cartridge did its stuff. And lo and behold if that crow didn't tip over and plummet to the ground! The distance? As paced by my elders it was pronounced to be about 200 yards. Was I some *rifle shot?* Or was I *some* rifle shot? Boy, wasn't I! But hitting crows at 200 yards offhand with a .22 Long black-powder cartridge fired from a four-and-a-half-pound rifle isn't done every day as I found out later. This was just another case of "mystery lead."

right whar I aimed 'er!
Calletti

Another time, a boy chum and I were trying out one of those Civil War Maynard .50 caliber carbines. We had bought it brand new for fifty cents at a sale. Part of the cartridges shot pretty good, so, to get a group, we used the cross lines of an old envelope. Two or three bullets struck nicely together; then by some hook or crook there was one off by itself. Grant bantered me to do as well. Not to be bluffed, I took my own

Every shooter knows that weird and wonderful things do happen when well-aimed bullets go astray—or vice versa. Tall as these tales are, don't scoff too loudly, or you may rue it when you've a tale of your own to tell!

.32 Long rim-fire Stevens (open sights, mind you), stepped back twice as far away, and let drive. No hole in the paper. I had missed; or had I? When I dug the lead out I proved I hadn't missed—because my .32 caliber bullet was smack in the center of the stray .50 caliber bullet. Not so bad! But neither you nor I could do it again.

But here is one really worth telling. One winter day back in the black-powder days, W. D., a ranchman, opened the ranch house door after breakfast and discovered a coyote sitting in the snow, way out on the hay meadow, yapping its fool head off. Stepping back into the house, he caught up his .40-60 Winchester.

"You ain't goin' to try to hit that Injun dog *from here?*" exclaimed one of the hired men, rising from the breakfast table and stepping out into the glaring sunshine beside his boss.

"Just goin' to give the little devil a surprise," W. D. replied. Then, pointing the rifle muzzle into the sky in the direction of the little wolf, he pulled the trigger. After an appreciable lapse of time, the yapping ceased.

"Damned if you didn't hit him!" exclaimed the hired man. And damned if he hadn't! They rode out to where the little wolf lay on the snow and they looked for the bullet hole. They couldn't find it. Then, presently, a slight trickle of blood dripping from the animal's lips drew their attention. The hired man knelt down and opened the coyote's mouth.

"Well, I'll be hog-swaggled!" he said.

"Huh, huh," W. D. grunted as he, too, knelt and stared into the coyote's mouth. There was the bullet hole, in the roof of the mouth! The bullet had entered the animal's mouth while its head was thrown back in the act of yapping! W. D. stared at his handiwork for a moment, then shot a stream of tobacco juice out over the snow. "Just exactly as I aimed 'er," he drawled.

A group of elk hunters sat one evening before the cheery fireplace of Holm Lodge, headquarters of Billy Howell, that grand old Cody guide. Among us was Fred Richards, another famous Wyoming guide, who told the following yarn:

While hunting one day, Fred jumped a big mule deer buck that immediately hit out for the tall-and-uncut with gas wide open. Things were moving so fast that Fred had time to snap off only one of those here-goes-nothing shots from his .33 Winchester. Down went the buck, head over heels!

The animal was as dead as a wedge when Fred reached it and, having had no particular or fair aim, he was most interested to find out where his bullet had landed. Hunt as he might, he could not find a bullet hole in the shoulder, hips, or belly, nor was a leg broken. So far as he could see, not a hair on that deer had been touched!

Fred didn't solve the mystery until the animal was rolled over and skinned out. And where do you think the bullet hit? In the buck's ear! Yep, that's right; that crazy .33 caliber 200-grain bullet maneuvered itself around until it centered itself perfectly in that buck's ear opening and on into the brain!

Then there was the time Lloyd Chilcote was hunting in the Devil's Head country southwest of Denver and spotted a big buck hiding behind a blowdown 125 or 135 yards down the ridge. Instantly, he lined his Lymans and fired. The rifle bucked and the deer went down as if it had been poleaxed. But when Chilcote had walked over halfway to where the animal lay, it suddenly lurched to its feet and staggered off, keeping screened by the brush and aspens. Chilcote quickly fired two more shots but the bullets failed to connect, too much brush in the way.

"I tracked that buck a good half mile," Chilcote told me. "Then, all of a sudden, it busted out of a thicket and away it went as if scared to death. The thing had me beat. I went back to where it first fell, and I couldn't find a drop of blood. Yet my first shot knocked that buck flat. Where'd I hit it? I'm asking *you.*"

But, speaking of lucky shots, the funniest one was the time J. D., the Denver attorney who has done more than any other

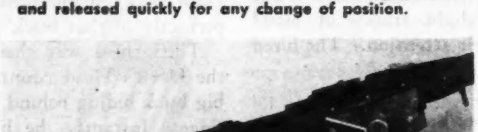
one man to restore Colorado's game and fish, took a buck right out from under the noses of every other fellow in camp. J. D.'s version of the affair is about as follows:

One morning in the cold, grey dawn as the sleepy deer hunters were prying themselves free from their warm blankets, the cook suddenly yelled, "There's a buck!" Sure enough, a good buck with nothing apparently in his head but the roots of a pair of good antlers, was sauntering along through the aspens at the very edge of camp. Instantly, heads were popping from tent flaps and, before a word was said, the shooting started. J. D., at the moment all this excitement cut loose, was warping himself into his cold, stiff breeches; but after one peep outside he reached back and grabbed up his long-barreled .30-40 Model '95 Winchester. Snatching up the gun in his right hand, and holding up his sagging pants with his left, he hobbled awkwardly from his tepee. Then he turned loose all holds on his pants, which promptly slid down around his feet. He weaved back and forth for a moment, trying to keep his balance as he swung his rifle on the buck as it flashed away into the aspens. The front sight swung uncertainly across the animal and the hobbled attorney yanked the trigger. To everybody's surprise, the buck collapsed in mid-air and hit the leaves in one grand skid. . . . The bullet had broken the animal's neck!

The moral seems to be that, if you must shoot deer with your breeches on the drop, you better be sure Lady Luck has you in her arms when you do it!

GUN VISE

The accompanying photographs will explain to the experienced shopman quicker than words the tool which they show. It is, of course, a vise, the brain child of Lieutenant Leo Meister, Ordnance Department, U. S. A. While this vise may be used to hold any kind of work, it has been particularly designed for the man working on rifles, shotguns, or other small arms. The beauty of the tool is that the work may be held in any position and released quickly for any change of position.



"An important object of this vise," states Lieutenant Meister, "has been to evolve a novel rifle gripping device by which the weapon may be held with great rigidity and with a minimum of liability of injury to the stock or finish, in contrast to the common practice of engaging the barrel or stock alternately between the jaws of an ordinary vise, with protective wood or other material interposed between the weapon and the jaws. The latter practices involve liability of bending the barrel or cleavage strains in the stock."

A feature of this vise which the gunsmith and ordnance man will appreciate is that it permits ready access to all parts of the weapon. The double grips holding the weapon are spaced well apart from the trigger and action, the mechanisms most frequently requiring attention, so that work may be done without any interference. They are leather-lined to prevent marring the finish.

Years ago, my brother and The Chief, an old cattleman friend of his, were meat hunting along the Platte River, up in Wyoming. Along in the afternoon they jumped a bunch of does and, after the animals had settled down a bit, my brother spied a head and neck sticking up above the brush sixty or sixty-five yards away.

"You better hadn't miss it," challenged The Chief as my brother raised his rifle. The ivory bead of the .32 Winchester Special Carbine settled on that neck. My brother fired. The head dropped from sight.

"Did that suit you, Chief?" my brother asked as they walked across the bottom to do the butchering. The Chief was a pace or two in the lead and when he came to the doe he stopped short, then blurted out: "Well! Well! I'll be danged." My brother hurried around to where he could see. . . . There on the ground lay *two* does! The one bullet had slipped through the neck of the first doe and smacked into the neck of a second that had stood back in the trees out of sight of the men!

. . . And did I ever tell you of the time when I was a kid and caught a bullet in my hatband? Well, it's a good story anyway so here goes. My brother and I were hunting rabbits and, as usual, taking turns shooting. He had a .22 caliber Stevens Favorite rifle, while I had my "b'ar rifle"—a Stevens Ideal .32 rim fire. We boys would have tackled a bear or anything else with that rifle. We had plenty of confidence in it.

Well, anyway, it was my turn and we had just located a pony rabbit squatting at the base of a big granite boulder. Without delay, I stepped down from my horse and to get a better view, moved over a way to the right, aimed, and fired. The rabbit bounced high into the air as they often do when hit in the head, and I started to walk forward to get it. At the same instant, something socked me right in the head. For a moment, I thought it was a little bird that had bumped into me as it flushed from the bushes near me. But, when I took my hat off to rub my head, lo and behold, there behind the leather hatband snuggled that .32 caliber bullet, flat as a penny and about as hot! . . . Sure, you can always tell *exactly* what a bullet is going to do!

One time fifteen or twenty years ago, when the late Chauncey Thomas and I were shooting prairie dogs, a very singular thing happened. C. T. was shooting a .30-40 single-shot Winchester using some midrange loads he had made up with GI jacketed bullets. He picked up one dog he had shot at, and we were surprised to find that the bullet had never hit it. Yet the tough little beggar was as dead as a nit. I remember that, at the time, we decided that the bullet must have driven a pebble into the little beast and killed it; but for some now unknown reason we did not, open the animal up as should have been done, so the actual cause of death is still a mystery. Often since then I have wondered if it could have been a case of "barking" a prairie dog? I have heard of "barking" grey squirrels, but can't yet figure out how the bullet shock could give the same effect from hitting the ground, as when a bullet hits a limb. Maybe the pebble theory was right.

H. L. Howard just about capped the climax one time when he was riding after cattle. As usual, he had his .22 rifle in the scabbard under one leg. He was shooting Longs. He spied a couple of Mallards flying past somewhere between 150 and 200 yards away. In those days, we all did a lot of shooting just for the fun of seeing what might happen. So H. L. stepped down off his horse, waved the muzzle of his little rifle toward the sky, held for the lead duck, and pulled the trigger. (The only thing we "squeezed" in those days was the girl of our immediate choice!)

A long second later, the *second* Mallard, flying fifteen or twenty feet behind the leading bird, folded up and nose-dived into the sage brush. Commenting on this shot, Ed said, "Of course, it was just an accident; but a bullet has got to hit *something!*"

But queer things happen not only in the game fields. After Doctor Mann had spent the best part of his life and a good sized fortune studying bullet behavior, he had nothing to report in his book, "The Bullet's Flight," comparable to what happened to A. W. Peterson and Lynne Chilcote one day out at the Colorado Rifle Club range.

Mr. Peterson had just finished a rifle chambered for the .32 Ideal cartridge. He cast a lot of bullets and drove out to the range for the final test shooting, taking Chilcote with him. At the range, we carefully segregated the freshly cast bullets into three lots. Lot One was made up of the perfect bullets; Lot Two, those with slight imperfections; and Lot Three, the bum ones, which we considered of no use and which were thrown into a can for recasting.

The best part of the afternoon was spent trying out different loads, using the selected bullets. Finally, a load was adopted and a number of strings were fired to verify the selection. Then Chilcote suggested that they shoot one group with some of the junk bullets in the can "just to see what would happen." Peterson agreed and they proceeded to load ten cartridges with the adopted weight of powder and ten imperfect bullets. They fired the string, using the same care in holding, et cetera, as previously; and, when they walked out to the target frame, they simply could not believe their eyes. Quite excited, they carried the sheet holding the group back to the shooting house; and there, to their utter astonishment, they discovered that this group fired with junk bullets was the best and tightest group fired during the whole test! . . . Go ahead and explain it if you think you can. "Mystery lead," *I* call it!

Why—*why* has bullet after bullet pulled off a performance that no one has ever been able to explain? Call it luck? Sure, it is luck. The inexperienced call it "a lucky shot." Some of them get one such shot with a bit of "mystery lead" and then expect it to continue to happen forever after. It might repeat, once in a blue moon. . . .

But, to me, there is something more than just luck in these freak shots. They are uncanny. They continue to happen and we know not why. To those of us who have followed the rifle-shooting game down through the years, there is always a peculiar thrill as each bullet leaves the rifle muzzle—wrapped in its inscrutable mystery. Each bullet is—"mystery lead." ◆ ◆ ◆

"Mutiny on the Bounty"

(*Continued from page 7*)

had so inaccurately probed, just as the biggest doe I had ever seen in my life broke into the open a hundred yards below, headed straight for us.

But it was a doe, so I automatically lowered my carbine. Not so Baptiste. His 1902 New Zealand Enfield roared out, kicking dirt right into the astonished doe's face.

"*Tirez!*" Baptiste shouted as he struggled with his rusty bolt.

The doe cut to the right. Reminded that she was fair game, I raised the carbine and led to the left, too far. I understand that, with practice, you can learn to lead properly with a peep sight, but I hadn't had that practice. She reversed, and I led to the right, again too far. She disappeared in the bush.

The next shots went to Colonel Allen and Private Larrimore. They were both armed with M1 rifles and, I later learned, were having the same peep-sight trouble I had had. The perfect weapon for New Caledonia deer, the Colonel gave as his considered opinion, was a BAR, canted 90 degrees and allowed to travel! At least one jump, he thought, might synchronize with one of the deer's bounds.

Then our hound sounded off again, reappearing with, I think, the same doe. We had shifted on the slope and I had a perfect shot. She didn't seem to see us and was running smoothly, but swiftly, along the edge of the bush not more than seventy-five yards away. I had the right lead, a perfect sight picture and plenty of time, and I squeezed one off that had that doe's number on it in indelible ink. I even heard the "*thwunk*" as it smacked her. She was hit right abaft of the shoulder, I was sure.

That doe didn't even falter in her stride. The dogs were neither fast nor smart enough to catch up with her, and there wasn't sufficient blood for Baptiste and myself to be able to follow her after she plunged back into the impenetrable tangle below us. I unloaded the carbine and became a spectator for the rest of the hunt.

It didn't last much longer. Captain Moore, ideally armed with an '03 with which he had been very successful on other occasions, using the battle sight, didn't get a single shot. M. Pellardi, understandably disgusted by our lack of marksmanship after his dogs had jumped six deer within an hour, was already calling "finis."

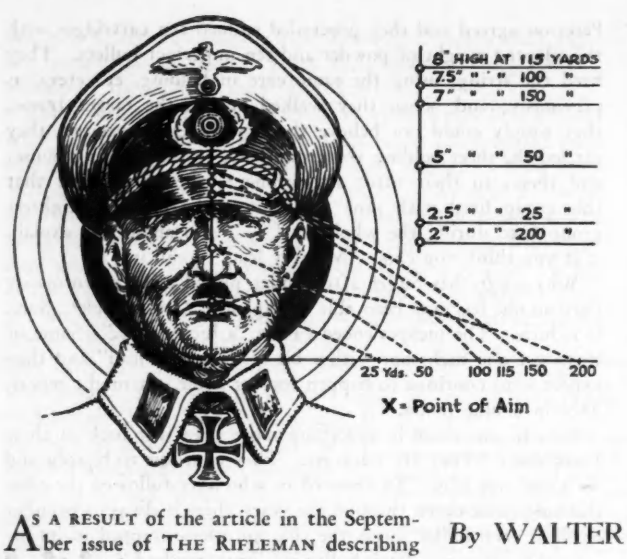
So that we wouldn't return empty-handed, he set out for home through the left-hand canyon with the dogs and the 8 mm. Lebel Fusil 1907 he had brought back from France. We had to wait half an hour for him at his thatched homestead, but he came in with a doe across his horse and two cartridges left in his clip of three.

The doe dressed out at around a hundred pounds, and while we discussed it over a couple of bottles of M. Pellardi's red wine, I measured the antlers of a six-point buck Captain Moore had shot the week before. They spread much less than those of any deer within my experience, perhaps as a result of the incredibly thick bush in which they must be able to navigate. These, eighteen inches high, spread only fourteen inches.

The following Sunday I was with Captain Harold Olson of Tacoma, Washington, when he shot another six-point buck which weighed two hundred pounds dressed. His two-foot antlers spread only eighteen inches.

Captain Olson used an M1 rifle, and had potted too many running Japs in the Solomons to be bothered by a peep sight. At two hundred yards he snapped the stag's right leg with one shot. However, our mess sergeant, cutting steaks a few days later, found the slug lodged, and not deeply, in the other haunch. With deer that big and tough, it's not surprising that a carbine bullet just gets in their hair.

So now you know what to expect in the line of deer hunting on New Caledonia. Of course, these were just short excursions between breakfast and lunch, within rifleshot of the island's main highway. If you want deer wholesale, you get up before breakfast and post yourself on a mountain in the interior before dawn. One party from our outfit did that, got seventeen deer, and were back for breakfast. Then, too, there's the officer who shot an eight-point buck from a jeep with a .45, but that's another story. I don't believe it. ◆ ◆ ◆



The "dream target" at the left shows what "fixed-focus" sighting can do for the Army's M1 Carbine. The article below tells what it can do for your pet hunting rifle. Read—

Battle Sights for Hunting Rifles

By WALTER F. ROPER

As a result of the article in the September issue of The Rifleman describing how the sights of the M1 Carbine can be set so that, with a single point of aim, shots at all ranges from twenty-five to 200 yards will strike inside an eight-inch circle, a great many letters have been received from riflemen asking how they should sight their rifles to obtain the best possible results in hunting.

Because so many hunters have shown an interest in this matter, I have worked out the accompanying table covering some of the cartridges in common use, showing the results obtainable and putting the data in table form for easy reference.

For some reason, most of the deer hunters I have met seem to think that a rifle sighted to hit the point of aim at 100 yards is about as correct as possible. One authority, however, recommends sighting the arm so that it will hit the point of aim at fifty yards, "so that, should a shot be taken at a grouse's head at ten or fifteen yards, a hit can be made without aiming low."

Sighting to hit the point of aim at 100 yards may, in some cases, be the best possible solution; but it is certainly *not* best in *all* cases—and sighting a rifle designed for getting deer so as to permit a successful shot at an occasional partridge is certainly not arranging matters to make the main object of a big-game trip easiest for the hunter! It is much easier to remember that; for any range shorter than fifty yards, one should hold a certain distance below the desired point of impact than it is to have to guess at the overhold at all ranges over fifty yards. Even if one could remember and had time to estimate the amount of overhold needed, such overholding results in partially or wholly covering the target with the front sight, something most undesirable on any game and practically sure to cause a miss on moving game.

Although varying considerably in velocity, which means that over a given distance different bullets will drop different amounts, in every case a bullet rises above the line of aim during a little more than one-half the distance to the target and then drops during the balance of the distance until, ideally, it reaches the point of aim at the target. With any cartridge, the range at which the bullet will strike the point of aim and still be properly sighted for game shooting at any range up to that maximum, depends upon the size of a circle on the game in which any bullet will cause a fatal hit. If, on deer, we assume that any shot in an eight-inch circle just back of the shoulder is satisfactory (the bottom point of the circle being the bottom edge of the body line), then the maximum range at which the bullet will strike the point of aim will be that which will not cause the bullet to strike more than eight inches above the point of aim at any shorter distance—aim in all cases being taken at the bottom line of the deer's body.

To show the difference in the results possible with a given rifle when sighted to hit the point of aim at 100 yards, and when sighted to keep the shots inside the vital circle, let us assume that we have a rifle shooting the .30-30 cartridge which gives the 170-grain bullet a muzzle velocity of 2,200 feet per second. If we sight this rifle to hit the point of aim at 100 yards, it will strike one inch high at fifty yards, three inches below the point of aim at 150 yards, and nine inches below point of aim at 200 yards.

Now, suppose we sight this rifle for a maximum range such that at no shorter range will the bullet strike more than seven inches above the point of aim. We will find that the sight setting required will let us *hit* the point of aim at 240 yards! Certainly a rifle that will let us use a uniform point of aim at all ranges up to 240 yards, and still keep all shots inside an eight-inch circle, is much more apt to bring home the bacon than one with which we have to remember to hold high even at 150 yards.

It is not at all necessary to "sight in" the rifle at the 240-yard range in order to get this result. By the same calculations that determined the maximum range, it is easy to find that, if the rifle is sighted to center its group one and three-quarters inches above the point of aim at twenty-five yards, it will be correct for the seven inches maximum above the point of aim at all intermediate ranges and will hit the point of aim at 240 yards.

High velocity, with its resulting flat trajectory, is one of the advantages of modern ammunition; and the value of speed is very nicely shown when we consider the small-game rifle one is sure to find in every camp: usually a light repeater shooting the .22 Long Rifle cartridge. For this rifle we now have available the "regular" and the High Speed ammunition. Most target men prefer the "regular" type; but let's see which is best for the man who likes a bit of partridge along with his venison:

To keep our bullets inside the space required to hit the head of a partridge, we can't let it strike more than one inch above the point of aim. With the regular speed cartridges, our figures show that fifty-five yards is the maximum range at which the bullet will not strike below point of aim when the bullet is kept one inch above point of aim at any shorter range.

With the High Speed cartridges we can keep within that one-inch circle and still not hit below the point of aim at almost seventy yards! If we want to reduce that maximum range to sixty yards, with the High Speed ammunition we can have our shots at any shorter range never strike more than a half inch above the point of aim. To get this result, sight your rifle to center its group a half inch above the point of aim at twenty-five yards and you can depend upon the hitting ability of the rifle right up to sixty yards.

In the accompanying table, seven inches above the point of aim has been taken as the maximum allowable variance, and the maximum range at which the bullet will strike the point of aim is calculated on this basis. The location of the group center above the point of aim at twenty-five yards is given so that "sighting in" may be as easy and as accurate as possible.

Cartridge	Group centers this much above point of aim at 25 yards	Range at which bullet will hit point of aim
.30-30 170-grain, 2200 FS	1¾ inch	240 yards
.300 Savage 150-grain	1⅛ inch	280 yards
.30-40 180-grain	1¼ inch	275 yards
.30-'06	1⅛ inch	280 yards
.348 Winchester 200-grain	1½ inch	260 yards
.250-3000 Savage 87-grain	1 inch	310 yards
.303 Savage 190-grain	1⅜ inch	240 yards

Maximum range (shown in right-hand column) may vary somewhat due to conditions, but the figures are close enough for hunting use. Bullet will never strike over seven inches above point of aim at any shorter range.

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THE PATTERSON FORMULA

(We reprint below, in brief, the "Patterson Formula" for sight adjustments. A more complete story of the Patterson Formula was published in the June, 1943, RIFLEMAN*—copies of which, we are sorry to report, are not available here.*—EDITOR.)

IT IS ASSUMED that the rifle to be sighted is equipped with a precision rear sight graduated in minutes and fractions thereof. (One minute equals 1.047 inches at 100 yards, or, roughly, "one inch for each 100 yards of range.")

For the purpose of this formula, "zero sighting" means the sight setting with which, at a range so short that bullet drop can be disregarded (say five yards), the point of impact is as much below the point of aim as the center of the bore is below the tip of the front sight.

Sight the rifle as above and note the number of minutes the rear sight then reads above "zero." Call this reading "EO." ("E" for elevation; "O" for zero sighting.)

Let "D" equal the number of inches the bullet drops in the range to be shot.

Let "R" equal the number of hundreds of yards in this range.

Then "D" divided by "R" equals what is usually called the "angle of departure."

Let "H" equal the height (in inches) of the front sight above the center of the bore. "H" divided by "R" will be the number of minutes of elevation required to offset "H."

M-1 ASSEMBLY
(PRIMARY)

"Sho', Sarge, Ah tol' dem strangers Ah's wuhkin' on a secret weapon. Tol' 'em de gawds own truff, too! Dis baby sho' is a mystery t' me!"

Let "ET" equal the number of minutes of elevation above the zero mark on the sight required for the range to be fired. The formula is: $ET = EO + (D \div R) + (H \div R)$.

To illustrate: Test shooting shows that, for "zero sighting" with a certain rifle, the rear sight must be set 3.5 minutes above the marked zero on the sight scale. The angle of departure $(D \div R)$ for twenty-five yards, as given by the manufacturer of the ammunition used, is 0.76. The front sight of this rifle is 1.6 inches above the center of the bore. "R," for a range of twenty-five yards, is 0.25. Substituting these values:

$$ET = 3.54 + 0.76 + (1.6 \div 0.25)$$

Solving: $ET = 10.70$—the number of minutes above the zero mark on the sight scale required to put point of impact at point of aim at twenty-five yards.

To determine the sight setting for 100 yards for this rifle, the zero sight setting will be the same (3.54). The drop in 100 yards, as given by the ammunition maker, is 3.36 inches. The front sight is still 1.6 inches above the bore, and "R" for 100 yards is 1. Substituting these values:

$$ET = 3.54 + 3.36 + 1.6$$

Solving: $ET = 8.5$ minutes—the number of minutes above zero on sight scale required for 100 yards.

Years of test firing show that sight settings determined by this formula are correct within a small fraction of a minute.

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What! No Machine Rest?

By HOWARD LANGLEY

ONE OF THE BASIC REQUIREMENTS for accuracy in any firearm is that the barrel be connected rigidly to the frame. If this is not the case, nothing approaching the size of groups that should be obtained will be possible. An example of the result of a loose barrel is shown in Figure 1. This group was fired with a single-shot pistol in which the barrel catch was slightly loose. Figure 2 shows how this same gun shot when the looseness had been properly eliminated.

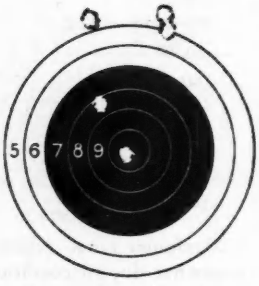


Figure 1

Group fired from sitting position, forearm rest, at fifteen yards, from single-shot pistol, barrel catch slightly loosened.

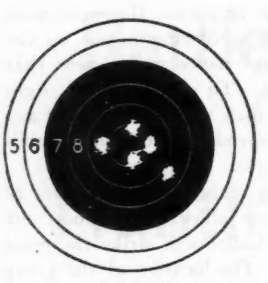


Figure 2

Group fired from same gun under exactly similar conditions except that barrel catch was properly tightened. (Cuts ½ size)

This matter of a loose barrel and its effect upon accuracy is of particular interest to pistol shooters because the gun required for the biggest match on the pistolman's calendar—The National Pistol Match—must be shot with the .45 Automatic in which the barrel is not only loose as regards the frame, but is actually made to move in relation to the frame during the operation of the gun. One of the most interesting and surprising things in the handgun game is that such remarkable scores are being made today with a weapon having this loose-barrel construction.

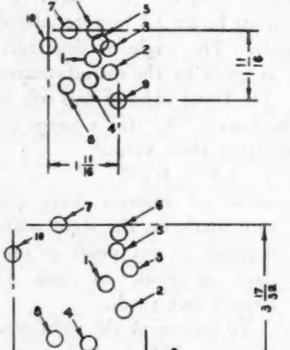


Figure 3

Top: Group made by Match Target Woodsman, at twenty-five yards. Below: Same bullets went on to strike the fifty-yard target as shown. Note similar location of the shots. (Cuts one-fourth size)

Actually, of course, the .45 Automatic never was designed and never was expected to give the kind of accuracy required to make groups at fifty yards the size of the ten-ring (3.72 inches) on the Standard target. It was built to deliver a knockout blow on a man-sized target, and to have the simplicity and dependability required of a military weapon.

Scores proving that many of these guns give accuracy far beyond what would reasonably be expected are being made regularly, however; and these scores prove that means have been found to overcome, at least temporarily, the handicap of the loose-barrel construction. This being the case, and since most pistolmen will eventually have the urge to prove their skill by shooting the National Match Course with the gun required in "the big match," a simple way to check the accuracy of the individual gun itself will, I believe, be of real interest and practical value to many handgunners.

So far as I know, no really dependable machine rest has ever been developed for testing the .45, although many have been tried. Even if such a rest had been designed, its cost would make it impractical for the average shooter; so the method of testing to be described here—one that requires no special equipment at all—should be of value.

In considering this method of testing, it should be remembered that what we want is not so much to determine the absolute accuracy of the gun, as to be able to tell when it needs an overhauling to restore its accuracy; for the .45 is one gun which, if put in proper shape, will do excellent shooting for about a thousand shots, sometimes twice as many, and may then have lost completely its ability to shoot even passable groups. When this happens, it needs what shooters call "an accuracy job" to bring it back to first-class condition. The reason for this is that for fine accuracy the parts of the .45 must be tightly fitted at various points. This tightness is gradually destroyed by shooting. To attempt to make high scores with a gun that needs revamping is a waste of time and ammunition, as will be seen in the actual tests of a gun in this condition. The important thing, therefore, is to be able to determine when low scores are due to a loss in gun accuracy, and when they are the fault of the man doing the shooting.

Some months ago my shooting partner, Ed Bridgman, obtained quite a noted .45 Automatic. It had, in fact, been used to win the National Pistol Match at Camp Perry at one of the last of the meetings there before the war. Naturally, some extra fine shooting was expected from it.

Our usual practice when we go to the range is to do a bit of warm-up shooting at twenty-five yards before tackling the fifty-yard distance. We followed this plan with the "new" .45. The results were not too pleasing, for an occasional shot, although apparently well held, would print very wide of the group. We began to suspect the gun had lost some of the gilt-edge accuracy that had captured the National, and our suspicions grew when we began to shoot at fifty yards!

One of the interesting things we have noticed over a period of some fifteen years of shooting is that, while our groups at fifty yards will be a little

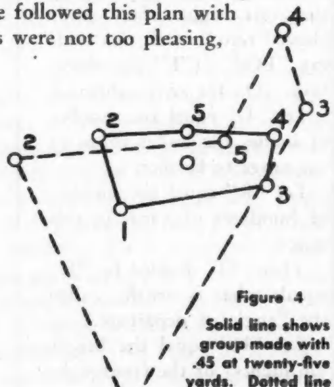


Figure 4

Solid line shows group made with .45 at twenty-five yards. Dotted line connects the group made by same bullets at fifty yards. Note the difference in shape of the groups. Aim taken at twenty-five yard target. (Cut one-fourth size)

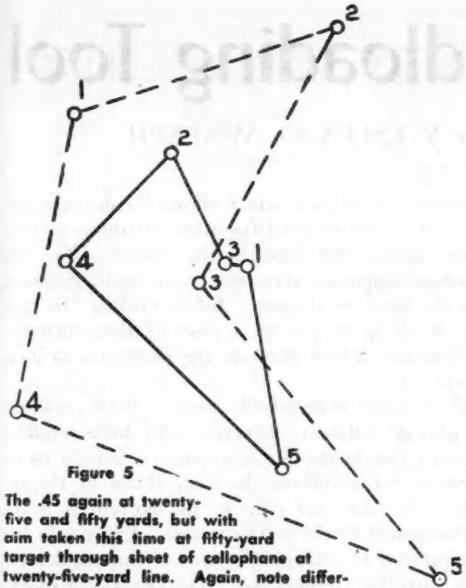


Figure 5

The .45 again at twenty-five and fifty yards, but with aim taken this time at fifty-yard target through sheet of cellophane at twenty-five-yard line. Again, note different location of shots. (Cut one-fourth size)

more than twice the size of those we make with the same gun on the same day at twenty-five yards, they are rarely more than two and one-quarter times as large; so, when we found that with Ed's new .45 we both got groups at fifty yards fully three times as large as those we made at twenty-five yards, and with some extremely wide shots, we were sure something was wrong. We proceeded to do a bit of figuring of ways and means of finding out what was happening.

Anyone who has read Doctor Mann's book, "The Flight of the Bullet," will remember the extensive use made of screens to determine how a bullet travels in going to the target. This method occurred to me as a simple way of finding out how the bullets from Ed's gun were behaving. As a beginning, we put up a target at twenty-five yards at which aim would be taken, and another target on the fifty-yard butts in such a position that the bullets shot at the twenty-five yard target would also pass through the fifty-yard target. We then arranged things so we could sit down, steady the gun with both hands, and rest the forearm when firing, thus eliminating most of the errors of sighting and holding.

As a sort of check, we decided to shoot first a gun we knew was extremely accurate—a Match Target Woodsman; and, so there would be no question about results, we arranged with two club members to mark each shot on each target as it was fired. Figure 3 shows the groups made by the same bullets from the Woodsman at twenty-five and fifty yards, reduced to one-fourth size to save space. It will be noticed that the fifty-yard group is almost exactly twice the size of the group made by the same bullets at twenty-five yards, and that the shots printed in the same relation to each other in both groups. The little Match Target made its bullets follow paths which were mighty nearly alike, and without any indication of any spiral flight.

Figure 4 shows what happened when we tried this same experiment with the .45. First, note the shape of the groups made simply by drawing a line between the different shot holes without regard to the order in which they were shot. Note, next, the figures on the shot holes and their relation to the other shots on the two targets. No. 1 is somewhere near in the same position relative to No. 2 on both targets; but notice No. 3 and No. 4. Something certainly happened to those bullets between the twenty-five and fifty-yard lines!

Just as a check, we reversed the test by putting up a target at fifty-yards at which aim was taken, and a large sheet of cellophane on the twenty-five yard butt through which each bullet passed on its way to the fifty-yard target. Again, each shot was marked as fired on both the cellophane and the target. Figure 5 shows the results. Again, the prints at twenty-five yards and those at fifty do not tally. Note especially shots No. 1, No. 2, and No. 3.

It was quite evident that the bullets from the .45 were not following a simple curved path; for, while a slight variation in the position of the gun was, of course, possible the greatest care was taken to locate it the same for each shot. The bullets should strike in the same relative position to the first shot hole on the twenty-five-yard paper as on the target at fifty yards. The only conclusion was that at least some of the bullets described a spiral or corkscrew course in flight.

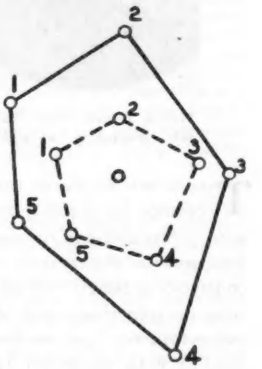


Figure 7

Dotted line shows twenty-five-yard group, solid line, fifty-yard group (same bullets) made by the same .45 auto after accuracy job was done. Shapes of groups and locations of shots now match! (Cut one-fourth size)

Consideration of this evidence led to the conclusion that either the ammunition or the gun was faulty. We had a very accurate S. & W. Model 1917 revolver which shot the same ammunition, so we repeated the experiment, using this gun and some of the same lot of ammunition. Figure 6 shows what this gun did. Here, as with the Match Target Woodsman, we got groups which were alike in shape, sized almost exactly in proportion to the range, AND with the bullets printed in the same relation to each other at fifty yards as at twenty-five. The ammunition was, therefore, NOT to blame for the wild shooting done with the .45.

It was quite evident now that the .45 Auto itself needed attention. An examination showed that there was considerable looseness between the barrel and the barrel bushing, that the link was loose both on its pivot pins and sidewise in its slot, and that the slide had considerable play on the frame. The gun was then put into the shop and gone over thoroughly—given "an accuracy job." Some weeks later, we tested it again. The results are shown in Figure 7. The .45 was back in the groove.

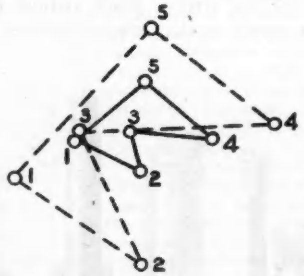


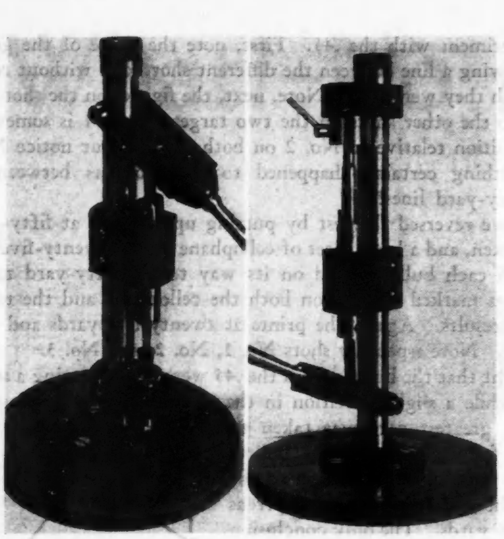
Figure 6

Twenty-five and fifty-yard groups (by same bullets) made with 1917 S&W revolver using same ammunition as used in Figures 4 and 5. Notice similar shapes of groups and corresponding positions of the shots.

From our experiences with this .45 and with others, I am convinced that the most important item in shooting the big gun for target scores is to be sure that the gun itself is able to produce the necessary accuracy. This can be determined by the simple "screen test" described above, and if the bullets do not print in the same relation to each other on both targets, the gun may just as well be retired until it has been conditioned to do *its* part. Your best efforts at "hold and squeeze" are wasted if the gun itself shoots curves!

Handloading Tool

By WESLEY O. WALKER



Picture above shows tool in its two working positions; at left, recapping; at right, with bullet puller in operation.

THIS TOOL IS MADE entirely with a small bench lathe and common hand tools, using scrap steel obtainable at any junk yard. No castings or special machining are necessary. It is designed for the amateur gun craftsman who would like to construct a bench tool of his own, but hesitates to spend his time on something makeshift. This tool looks well, will de- and recap, size case necks and bullets, and pull and seat bullets, all with reasonable speed.

The dimensions given in the drawings are for the .30-40 and .30-'06 cartridges. Interchangeable dies and cradles can be made to handle any other cartridge desired.

The column of the tool is thirteen inches long and one inch in diameter, threaded for one inch at each end, thirteen threads to the inch. Half-inch collars are made to screw on these ends, forming a shoulder to rest against the base when the column is screwed into it. The base is a common floor flange for three-quarter-inch pipe and is mounted permanently to the loading bench. Either end of the column can be screwed into the base, with the lever either at top or bottom.

The guide for the vertically moving shank, and the part for holding the sizing dies and other attachments, are made together from a piece of cold-rolled steel two and one-half inches in diameter by three inches long. The two parts are afterwards cut apart with a hack saw. These are attached to the column by Number 3 taper pins, which allows the distance between the two parts to be adjusted for other cartridges simply by drilling and reaming new holes in the column. The set screw is used when temporary adjustments are made, preparatory to drilling the holes for the pins. Before drilling, the two parts should be lined up by passing a piece of three-quarter-inch stock of sufficient length through the three-quarter-inch hole in both parts.

The case neck expander is detachable from its shank, making it possible to provide different diameters with little trouble. The rather unusual case holder for recapping is thought to be the simplest means of overcoming the short throw of the recapping punch. The threaded plug in the bottom is brass, and supports the mouth of the cartridge case. Experience has shown that the pressure of recapping is not sufficient to deform the case mouth with this arrangement. The upper part of the holder is tapered to center the case. Pistol and other short cartridges could use a simpler holder, such as the one used for decapping. The decapping pin is dropped in the case before the case is placed in the press. This does not compare in speed with the sharp-spike-and-mallet method, but it is safer when used to remove good primers.

The bullet seater is adjustable for length but does not crimp the case. The sizer for cast bullets is used in the event that the operator does not have a regular sizing press, or may wish to make some bullets of unusual diameter.

It should be noted that the bullet puller is split only as far as the threaded part. The diameter is then cut halfway through on the side toward the handle, which leaves the movable jaw fastened to the rest of the body by a one-eighth-inch web. This makes it possible to clamp the bullet securely with very little pressure on the handle. The longitudinal slot is made by drilling a series of one-sixteenth-inch holes and smoothing up with a narrow file. The other slot is cut with a hack saw.

All parts subject to much wear, such as sizing dies, are case-hardened by heating red hot, covering with sodium cyanide, reheating for two or three minutes at a red heat, and quenching in cold water. All flat parts are given a coat of crackle finish black enamel (Sherwin Williams Chem Finish) and baked for thirty minutes at 250 degrees.

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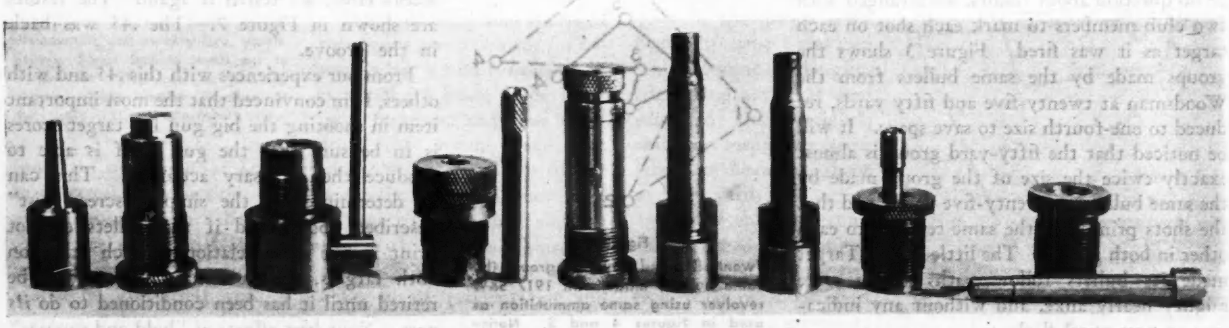
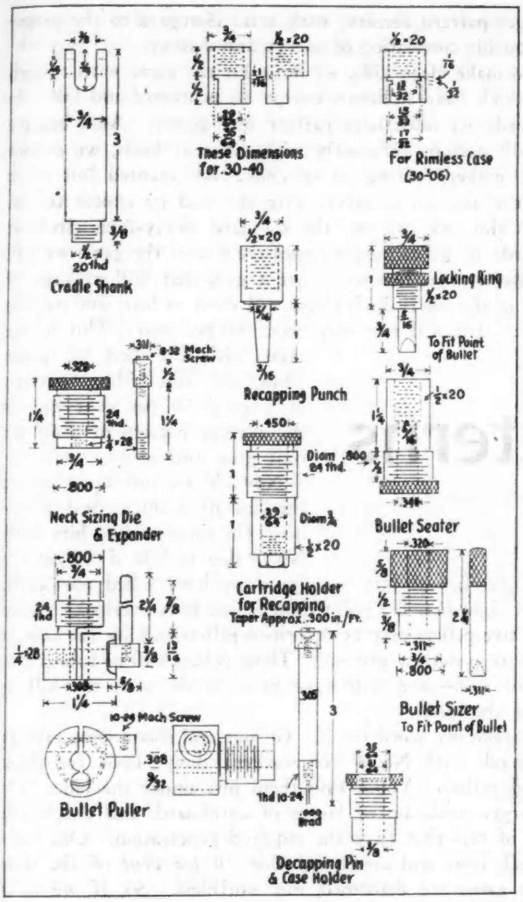
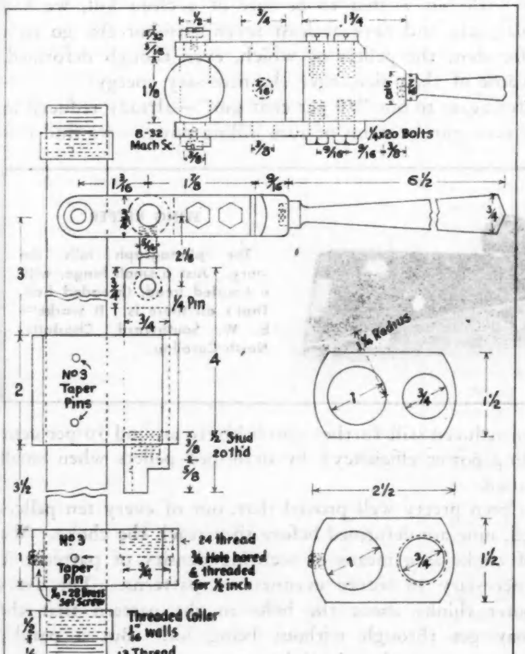


Recapping device. **Bullet puller.** **Bullet sizer for cast bullets.** **Bullet seater.** **Cradles for rimless and rimmed cases.** **Neck re-sizer.** **Decapping device.**





An Opinion on Shotgun Pitch

Length of stock, drop of comb, and drop at heel are the three measurements usually mentioned in catalogues or in magazine discussions concerning the fit (or misfit) of a shotgun to its owner. Pitch, in the rare instances where it is mentioned at all, is usually given in some such haphazard figure as "pitch down at muzzle—three inches" which is a very casual and inaccurate way to describe what seems to me to be the most important dimension to be considered. Not an expert, and always willing to learn from my "elders and betters," I write only as an interested individual expressing a purely personal opinion.

In the first place, what is pitch and how should it be measured? In a gun with no pitch, the butt plate is at right angles to the axis of the bore. Pitch down means that the angle of the butt plate to the axis of the bore is less than ninety degrees. Hence, a gun with pitch down will, if the butt plate is rested flat upon the floor with the breech in contact with a vertical wall, slant its muzzle away from the wall. The distance away from the wall in inches is usually referred to as the pitch down.

This is not an accurate measure of pitch, for the distance of the muzzle from the wall increases with barrel length, assuming the same angle of butt plate to bore axis. Too, there is a considerable difference in this muzzle measurement between a double gun and an automatic both having the same angle between butt plate and bore axis, and the same barrel length. This difference is due to the additional distance of the muzzle from the rear of the long breech in the case of the automatic.

But measurement of the angle between butt plate and bore axis is difficult for the average shooter and, since the old method of floor and wall is convenient, I suggest that the old method be retained but refined to show a true picture. This could be done by expressing pitch as, say, "three inches down (or away from the wall) at a point twenty-six inches from rear of breech." The simple addition of the distance from the rear of the breech at which the pitch is measured would make it possible to apply this old and convenient method to all types of guns and all lengths of barrel with sufficient accuracy to assure a proper fit.

I have mentioned that I consider the pitch of a gun to be the most important dimension. This implies the relatively less importance of drop at comb and heel and length of stock. Let's consider length of stock first. The proper length for a shotgun stock is that length which permits the shooter to reach the trigger comfortably and quickly without stretching or straining his trigger arm even when he is upholstered with about three-quarters of an inch of wool clothing and fleece-lined coat in a duck blind. The same gun may be used to hunt pheasants on a mild day when light clothing is worn. Hence, the variation of three-quarters of an inch in apparent stock length is not especially noticeable, as it is easily compensated for by simply bending the elbow of the trigger arm. I believe it safe to say that variations in stock length up to this amount are not of serious consequence and do not inconvenience the shooter unduly so long as the length is not too great for convenient handling of the gun when heavy clothing and gloves are worn.

Drop at comb and drop at heel also can vary within reasonable limits if the pitch is right. Too little drop is overcome easily by raising the butt a little higher on the shoulder, dropping the head a little lower, or both. On the other hand, too much drop can be accommodated just as readily *if the pitch is right*—but not otherwise, for, unless the pitch of the gun is right for the shooter, the butt cannot be held lower on the shoulder because the toe of the stock will dig into the shooter's chest, making the hold uncomfortable and unsteady, making the apparent stock length greater, and making recoil much more apparent. In the main, however, too much or too little drop in a stock is not a fatal fault if the pitch is right.

Now, let's consider pitch, not as what it is and how to measure it, but in relation to the shooter. The front of a man's shoulder is neither flat nor vertical. It is curved, more or less muscular, and the point of contact with the toe of the stock generally is ahead of the point of contact with the heel. Naturally, a gun should fit the shooter best in the position in which most of his shots are taken. Most shots, excepting overhead shots at high-flying ducks, are taken with the axis of the bore swinging a vertical arc of considerably less than ninety degrees, and a gun which is pitched to sight naturally and to hold comfortably and securely against the shoulder when the axis of the bore is horizontal can be used effectively in ninety per cent of today's shooting, and can be instinctively and instantly adjusted to compensate for reasonable differences in drop and stock length. But there is no such easy and instinctive correction possible when the pitch is wrong. Wrong pitch means a wrong angle to the barrel if the butt is held comfortably, or a dubious hold if the proper barrel angle is obtained. Both are very conducive to misses.

Let me illustrate with a bit of personal experience. Being about average physically, I shot an average gun; a well-known pump gun of regular factory measurements, with modified choke. An old friend gave me an old automatic, cylinder bored, and I changed overnight from an average shotgun shooter to a good one. (Good for me, anyway.) At first, I ascribed the difference in my shooting to the wider pattern of the more open boring; but I soon realized that I was hitting my targets full, with the center of the pattern. That being the case, the wider pattern had nothing to do with my improvement. The real reason was a difference in pitch; and, once I had guessed it, I proved it (to my own satisfaction) by altering the pitch of my own gun to match that of the automatic. Sawing off of the butt of my old gun three-eighths of an inch at the toe to nothing at the heel made both guns equally effective.

Since that time, I have had a number of guns, varying as to drop and length but all made to the same pitch dimension, and I have been able to shoot all of them about equally well.

Hence my conclusion that pitch is (within reason) the most important stock dimension to be considered in getting gun fit. I'll be interested in the views of other shooters.

—ALLAN S. NOYES.

THE AMERICAN RIFLEMAN

Official U. S. Army photo.

THE COVER

Never in the history of the world has the spirit of Christmas been better exemplified than now when American men are giving their lives to win peace on earth, good will among men. . . . And, wherever American men go, they bring gifts to the needy: gifts of gum and K rations, gifts of brotherly kindness. . . . Our cover this month shows no holly wreaths, no Christmas trees—but it portrays very well, we think, the spirit of Christmas, 1944

Choke, Shot, and Patterns

By NORMAN POWELL

QUITE A NUMBER of cagey and provocative articles have been presented recently to the shooter on the subject of shotgun performance. These said articles are interesting, but one question of interest to every smoothbore shooter is sometimes mentioned but is never fully answered. That is the question of barrel choke and shot sizes on patterns.

I make no claims as an expert on guns, but I have had over forty years of experience as an average shooter on land open to the public, where the competition is keen and where the game is man-wise, wild, and none too plentiful. I am also a toolmaker, and I applied the skills of my trade to the problem at hand. In other words, I solved the question of shotgun choke and pattern the hard way, by making choke tubes and testing them.

It is my considered opinion that most of the indirection, conflicting opinions, and pure hogwash concerning the shotgun is the result of a lack of hard work plus common sense. Consider the controversial matter of shot strings. Why not be practical and set up, one behind the other, a stationary target and a target moving at the speed of a flying duck. Mount the gun in a machine rest forty yards away and, at the instant the moving target passes behind the stationary one, fire the gun (by means of an electromagnet, with the moving target closing the circuit) so that the entire pattern is registered on both targets. . . . Similarly, why not settle all the arguments, pro and con, about choke deforming pellets and about one size shot being deformed more than another, by catching the entire shot load fired from cylinder and chokebored guns, using different sizes of shot and counting the deformed pellets?

These and many more smoothbore problems could be solved by pure practical mechanics; and, regardless of the time and expense involved, the solutions would be worth while if they revealed the causes of—and thereby lessened—the unnecessary wounding and crippling of game due to using underpowered guns and loads.

Make no mistake about it, wounding of game is on the increase and it does the sportsman no good in public opinion. It is the cause of some landowners posting their land against hunting. Too many shooters are worshipping at the shrine of "easy to hit," with open-bored guns often souped up with small shot to get pattern density, with utter disregard to the proper and reasonable correlation of energy and density.

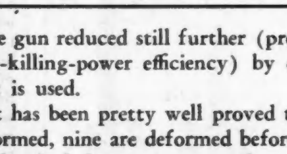
For, to make clean kills, we must hit the game with enough pellets which have sufficient energy to penetrate and kill. In other words, we must have pattern plus power. And, because a gun will pattern differently with different loads, we cannot take the makers' rating as to choke for granted but must pattern the gun for ourselves with the load we expect to use.

To do this, we can use the standard thirty-inch circle at forty yards, or we can use a target the size of the game we will hunt. Remember, however, that a gun that will average 70 per cent in the thirty-inch circle will shoot at least one pattern out of ten that will rate only about 60 per cent. This is true even with the best of guns. Thus the sure-killing pattern of a good 70 per cent gun is the average pattern of a 60 per cent gun, and so on.

Now, if we put up a target the size of a duck, and if we need (in theory) five hits with No. 6 shot to kill, if we get the required number of hits, we figure we have killed our duck. . . . But right here is a point most of the boys overlook! Some of those five pellets may be deformed pellets lacking the energy necessary to penetrate and kill. Those pellets will be found just under the skin—and will have little to do with the killing power of the load!

Don't take my word for it. Go out and shoot some rabbits and squirrels with No. 6 (or smaller) shot. Look for these deformed pellets. You'll find them just under the hide. Or use a target made up of layers of cardboard, and check the number of hits that have the required penetration. One man made such tests and concluded that *10 per cent* of the shot that hit game are deformed and worthless. So, if we need five hits with No. 6 shot to be sure of a clean kill, we had better play safe and have at least seven hits—or else go to a larger size shot, the pellets of which, even though deformed, will, because of their size, have the necessary energy.

To refer again to our "70 per cent gun"—already reduced to a 60 per cent gun in terms of sure killing power—we find this same gun reduced still further (probably to around 50 per cent sure-killing-power efficiency) by deformed pellets when small shot is used.



SLING KEEPER

The photograph tells the story. Just a small hinge, with a knurled head, threaded bolt. That's all there is. It works!—E. W. Southward, Charlotte, North Carolina.

It has been pretty well proved that, out of every ten pellets deformed, nine are deformed before they reach the choke. We think of choke as a means of securing density of pattern; it is also necessary to secure evenness of patterns. The average shooter thinks about the holes in the pattern that the game may get through without being hit. But a patchy pattern means more than just that, to me. It means there is something wrong with the gun; and the probability is that the gun that shoots patchy patterns will show a greater variation in pattern density from shot to shot, and that such a gun will be found more sensitive to different loads.

I believe that a gun that throws a good, even pattern will make more clean kills, on the average, than a gun that doesn't. From my own experience in making shotgun chokes, I believe that a choke that makes good patterns on the pattern board can be depended on to kill well; and my tests showed that a good pattern from a 16 gauge gun will kill better and at longer range than will a poor pattern from a 12 gauge gun.

We often hear it argued that patterning a gun on a stationary target is not a true test of its killing power on game moving at right angles to the shooter. But if we ever get that real test of the stationary and moving targets for shot-stringing tests, I predict that we will not find a shot string like a sea serpent, feet and feet long, but that we will find the pattern caught by the moving target elongated not more than eighteen inches at forty yards range—that the distribution will be considerably thinned—and that the more open the choke the greater the elongation and thinning out will be. Of course, we can expect a tail at the end of the elongation caused by a few badly deformed pellets that would have no killing value anyway. I think we would find that we need about one-quarter-inch more choke to kill game at right angles than to kill game going straight away. And I will stick my neck way, way out and predict that the advantage of the even-pattern gun over the patchy-pattern gun on right-angle targets moving at game speed will be so great that it won't even be funny, regardless of all the fancy figures that the experts have been feeding us!

Let's consider shot sizes from a practical viewpoint. The very guy who throws his hands up in horror at the idea of using a .25-20 on deer, will often recommend No. 7½ shot for ducks and pheasants. He should know that 7½ will do about as much wounding, in the hands of the average shooter, as will the .25-20. We have no better all-around shot than No. 6, but even it can be on the light side for squirrels, due to their tough hide. I would rather err on the side of too large than too small any day.

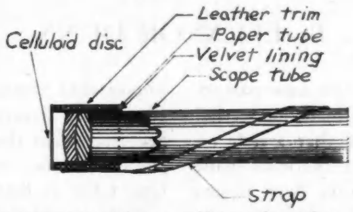
A writer who had patterned his duck guns, wondered why he had a large number of hits in the center of his target and the percentage in the thirty-inch circle was low. This is the feature of a true full-choke gun: its ability to hold the pattern together over a very long range with a dense center or core even after the outer pellets have curved out of a circle.

TRANSPARENT DUST CAPS

Dust-covered lenses on the rifle scope are an abomination to the target shooter and are even more obnoxious to the hunter. Snow or rain drops make the situation even worse. Dust caps take care of this, but they must be removed before shooting. This is no problem to the guy shooting at a paper target, but is impractical for the hunter facing live, fast-moving targets.

The answer is—transparent dust caps.

Cut a strip of velvet about three-quarters of an inch wide, and just long enough to wrap around the end of the scope tube *without overlapping*. Cut stiff wrapping paper into strips as wide as the velvet. Coat one side of a strip of paper with a waterproof glue of the ambroid type, and lay the piece of velvet on the strip, edges even, with the end of the cloth projecting a little. Roll this around the end of the scope tube, cloth inside, making a snug-fitting, cloth-lined cylinder. Glue and wrap additional strips of paper outside until the cylinder is stiff enough. Leave it in place to dry while you make the cap for the other end of the scope.



After the glue has set hard, slip off the caps and trim the outside ends flat and even. Give these rims a light coating of glue, and let them set until nearly dry.

Cut out two squares of *clear* celluloid, a little larger than the diameter of your caps. Give the ends of the caps another *light* coat of glue and set them each on a celluloid square. Do not use too much glue. If you do, the celluloid will wrinkle and be useless. Set a weight on the caps and let them dry.

When dry, trim off the projecting corners and rim of celluloid and glue a wrap of thin leather around the paper tubes. This gives the high-quality finish desired. Then take a light leather strap, an inch or two longer than the scope, and glue one end of it to the forward cap, run the strap through the mount where it does not interfere, and glue it to the other cap.

These caps will keep dust, rain, and snow off the lenses, can be carried in place at all times, and you can aim without removing them.—Lew Stilwell.

I have made a very tight choke in 16 gauge that will score more hits on a small target at sixty yards than a 12 gauge gun I have. Yet the 12 gauge will put more shot in the thirty-inch circle at forty yards.

For evenness of patterns, lack of sensitivity to different loads, and all-around usefulness (except for very long-range work) the three-quarter-inch choke is second to none. Modified, it is a close second, but unless a man has a good dog or easy-to-hunt land where he can flush his game close to the gun, he will do better to take his misses due to lack of skill and keep away from the more open bores except for quail and grouse. In no case should he use a gun so bored that he must use shot too small for the game hunted unless he be content to pass up all moderate- to long-range shots.

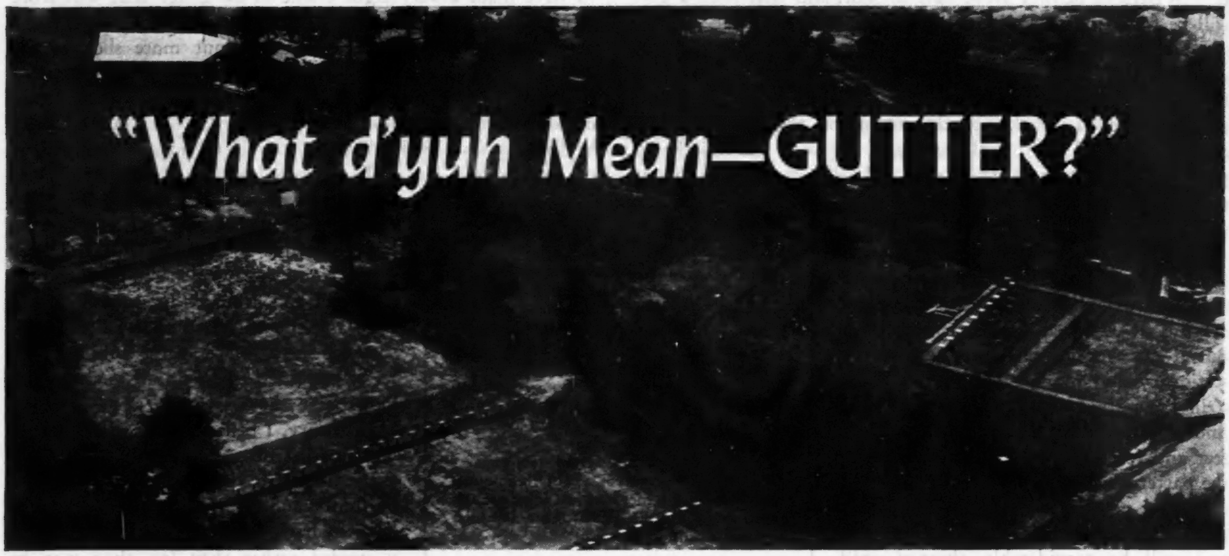
In theory, I believe a man should use a combination of gun and load that is exactly suited to the game and conditions he hunts under. But, in practice, I believe in having *more* killing power than is needed rather than *less* than may be needed—regardless of misses due to tight patterns or due to fewer pellets in the load. I believe all true sportsmen would rather miss game completely than wound it. Wounded birds that fly away to die unfound grease no pots and should be a burden on the conscience of the hunter.

Let's be frank about the whole affair. We have gone, in recent years, from the extreme of full choke to the opposite extreme of improved cylinder and quarter choke, to compensate, not just for thick cover, but rather for lack of practice on the part of the shooter to enable a shooter who is just starting out at the game to buy a gun and kill game his first season. I do not believe that we should impose a full-choke gun on a beginner, but neither do I believe in making a pantywaist out of him by arming him with an easy-to-hit-with, underpowered gun that is only suitable for fast shots at known distances, as in skeet shooting.

I believe that a lot of boys in the service are going to be interested in hunting when this rumpus is over. Let's be ready for them with ballistic facts instead of bunk which, the chances are, they will be too smart to believe anyway! ◆ ◆ ◆

(Further discussions of the relationship between shot sizes, barrel choke, and the resulting shotgun patterns are scheduled for early issues. Watch for "A Rationed Hunt," by Francis Sell, in the January issue, and "Popular Shot Sizes," by Major Charles Askins, soon to come.—EDITOR.)

An Answer to "What d'yuh Mean—GUTTER?"



By ELEANOR DUNN

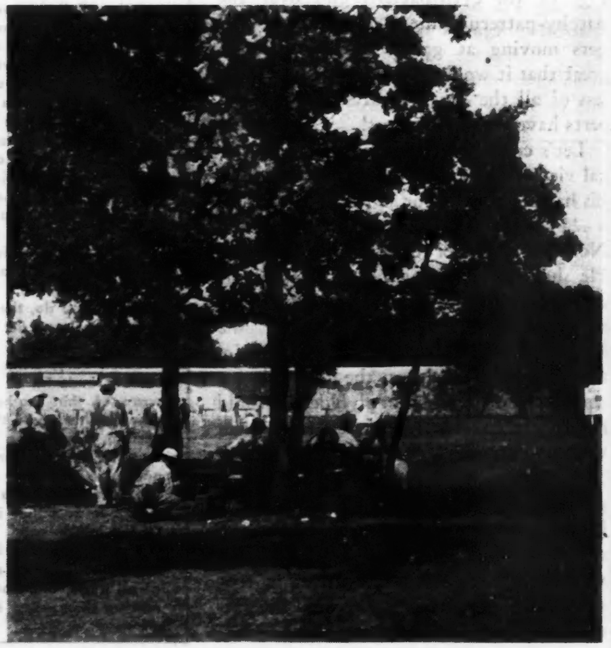
I've been seething ever since I read that piece in last April's Rifleman. It told us riflemen some hard truths about our cellar and cow-pasture ranges, and the fact that they are truths is what made me seethe!

Of course, I do disagree with the writer of that article on two points. First, I maintain that there *is* a National Rifle Champion.* In 1941, Ransford Triggs of Madison, New Jersey, (now Lieutenant Triggs of the Naval Air Corps), won the National Rifle Championship, shooting at Camp Perry. Perhaps the reason you haven't heard of him is that he has been very busy ever since then teaching aerial gunnery.

And, second, about this business of rifle women in uniform. The article in question advocated uniforms instead of old clothes. But why must clothes be old? Uniforms are usually dull, practical colors. Why not wear colorful sport clothes, as is done in other sports? I once saw an archery meet and was struck by the colorful attractiveness of the participants' clothes compared to the usual drab look of clothes worn at rifle matches. Of course, about 40 per cent of the archers were women, and it was their raiment which added most of the color. But please don't suggest uniforms for shooters; particularly not for women who are always happier in bright, pretty colors.

But as to typical range facilities and conditions, the article told the unvarnished (and unpleasant) truth. At least, it *was* the truth—until Valentine Cleaver, as Executive Officer, and Raymond Bowman, a Club Secretary, had the initiative, and the vision to plan and build the club house, range, and shooting program of the Grumman Gun Club at Bethpage, Long Island.

Only twenty-five miles from New York City, easily accessible over fine parkways, the Grumman Club was created for the training of the plant guards and the use of the employees



*** (This refers, of course, to the question asked in the original article: "Who's the National Rifle Champion? Who's the best rifle shooter in these here United States? You don't know? Neither do I! One guy wins one match, another guy wins another—and so it goes." . . By way of speeding up the discussion, we submitted Miss Dunn's answer to the writer of the original article. Here's what he says:**

"I hope my good friend, Rans Triggs, will not regard the following as in any way derogatory of his top-ranking skill and grand sportsmanship as a shooter. Triggs won the title of National Small Bore Rifle Champion for the year 1941 on the basis of his winning score in the Critchfield Memorial event, which is an aggregate match made up of most of the Camp Perry All-Comer matches. However, this did not include any 200-yard matches, nor did it include the only match fired at Perry from the standing position, the Pope. Nor, needless to say, did it include any rapid or surprise-fire.

"To make the picture more confusing, the National Rankings, based on the number of top-flight competitors defeated during the entire season, for 1941 carry the name of Dave Carlson in the top spot, with Triggs fourth. Who was better, Triggs or Carlson? I don't know! And who was the best four-position gallery shooter for 1941? I don't know that, either!")

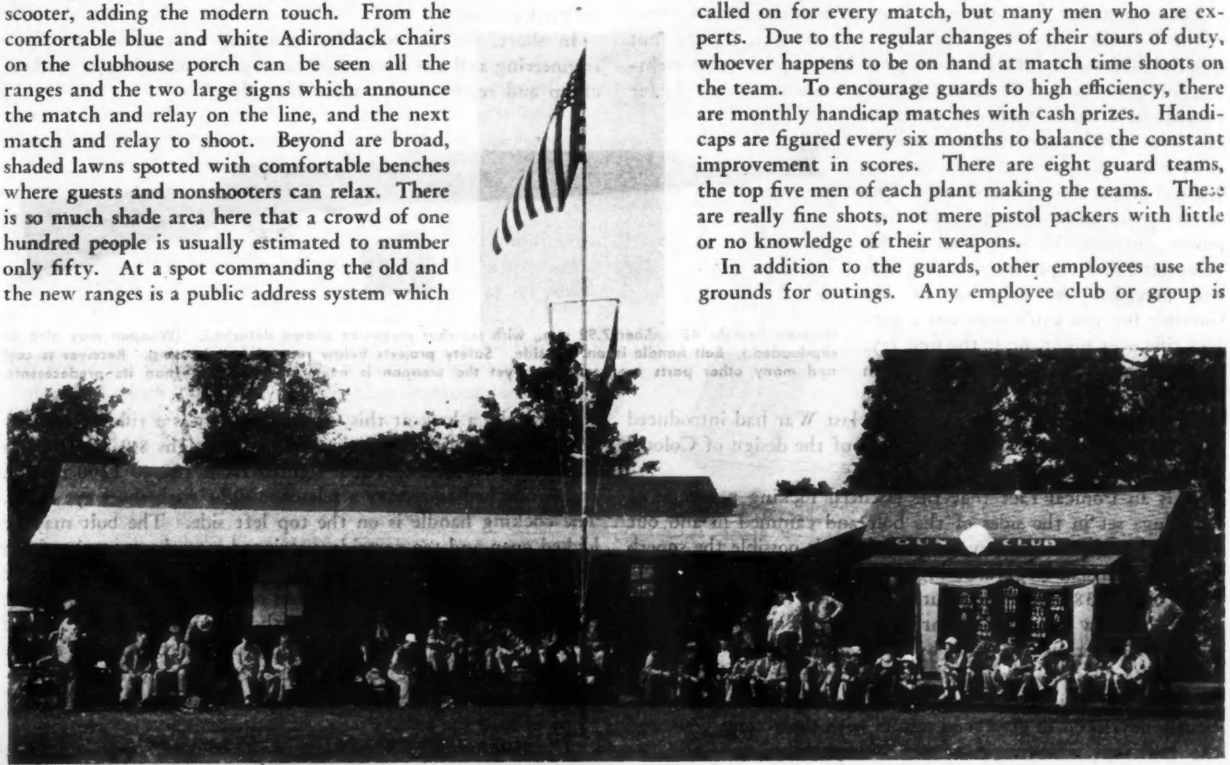
of the Grumman Aircraft Engineering Corporation, makers of the famous Wildcat, Hellcat, and Avenger planes. Turning into the club entrance road, one passes an athletic field and, some 300 yards in from the main entrance, parks his car under the trees, noticing, for future reference, a soft-drink-and-refreshment stand and a water fountain. On the right of the entrance hall of the club house is the social room where shooters register and look over the display of medals for the current match. Pictures of Grumman planes line the walls of this twenty-by-forty-foot room. (A large picture window, a fireplace, and indoor rest rooms will be added later.) Incidentally, nearly all materials used for building and equipping the club structure and range are noncritical and have been salvaged for this purpose.

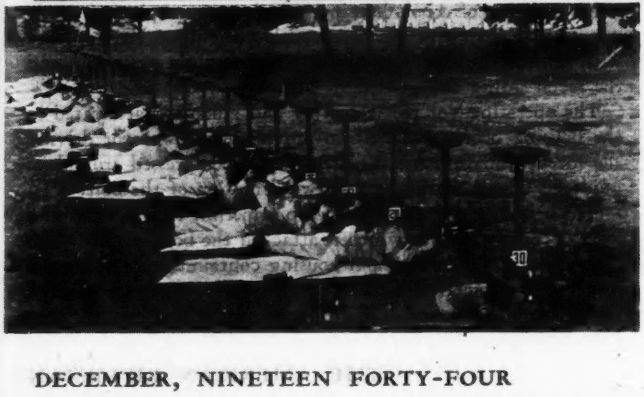
On the left of the entrance hall is the statistical office and beyond it the magazine. On through the entrance hall is a wide covered porch which runs the length of the clubhouse. In a separate building is the range equipment, targets, frames, shooting mats, and the target carrier—the latter a motor scooter, adding the modern touch. From the comfortable blue and white Adirondack chairs on the clubhouse porch can be seen all the ranges and the two large signs which announce the match and relay on the line, and the next match and relay to shoot. Beyond are broad, shaded lawns spotted with comfortable benches where guests and nonshooters can relax. There is so much shade area here that a crowd of one hundred people is usually estimated to number only fifty. At a spot commanding the old and the new ranges is a public address system which keeps everyone informed as to the progress of the matches.

The combined rifle and pistol range had ten points, originally; but, in October, 1943, to take care of the volume of entries for the first rifle match, twenty points were added. The same permanent frames hold both pistol and rifle targets. Every month for the great number of employees who belong to the club, there is one rifle and one pistol match, one inter-plant match, and one "open house day" during which qualification scores are shot or the skeet and trap ranges are used. Two of the rifle matches have been registered as have two pistol matches. No organized skeet or trap matches have been run as yet, though an interesting "round-house" shoot has been held this year and another is planned for this autumn.

The range is used every day for the training and practice of plant guards. These men, trained by Val Cleaver, are members of the best Defense Plant team in the Metropolitan area. They have won matches shooting against Bendix, Republic, Ranger, Liberty, and Sperry. Their training has been so thorough that there are not merely five top shots who are called on for every match, but many men who are experts. Due to the regular changes of their tours of duty, whoever happens to be on hand at match time shoots on the team. To encourage guards to high efficiency, there are monthly handicap matches with cash prizes. Handicaps are figured every six months to balance the constant improvement in scores. There are eight guard teams, the top five men of each plant making the teams. These are really fine shots, not mere pistol packers with little or no knowledge of their weapons.

In addition to the guards, other employees use the grounds for outings. Any employee club or group is welcomed there. The outdoor fireplace is a particular lure.





The popularity of this project is evidenced by its constant use and by the attendance at matches. People come here because of the pleasant surroundings, the friendly attitude, and the different and varied shooting programs. Within two miles of the range are four beautiful, uncrowded, public golf courses and within five miles is Jones Beach, most beautiful of the beaches in the New York City area. Golfing and swimming wives and families drop Pappy at the range, spend the day at their own sports and pick him up later. Other families spend the day reading and picnicking in the shady groves. And many nonshooting members of these families, ***(Continued on page 26)***

Latest German Infantry Weapons

By W. H. B. SMITH

1. Gewehr 43

EVERYBODY KNOWS about the German V1 and V2—the robot bomb and the more recent "flying telegraph pole" bomb. Although they did untold damage, they came too late in the war to do Germany any real good—*this time.*

On the other hand, practically nobody in this country knows very much about the latest German infantry weapons. They, too, are coming too late to do Germany any real good—*this time.* But their future potentialities are so great that they should have the immediate attention of our designers and industrialists —and of all who will have the job of supervising Germany in the interests of future peace.

Let us consider, first, the new German answer to our Garand —the Gewehr 43. Our Ordnance Department, closely but quietly followed by the Russians, got the jump on other fighting forces in recognizing the value of a semiautomatic rifle for general field use. With our magnificent mass production system, we were able, when the war started, to gear up Garand production tremendously. The resulting infantry accuracy plus firepower justified the long trail of development and experimentation which had preceded the adoption of the Garand; for you can't turn out a perfect rifle over night, or at the first try.

The Germans had experimented with semiautomatic rifles as far back as the early '90's, and toward the end of the last War had introduced into service some experimental weapons of the design of Colonel Mondragon, of the Mexican Army.

It is an ironical fact that the essential locking principle of loose lugs set in the sides of the bolt and cammed in and out to unlock and lock—the system which made possible the superb yet cheap Russian Degtyarov Light Machine Gun, the new Russian Tokarev 38 and 40 semiautomatic rifles, the German M.G. 42, and the new German Gewehr 41, 41W, and now the 43—was originally experimented with by the German High Command at a time when our Army was equipped with single-shot .45-70 Springfields! But the powders in those days were not sufficiently developed to give good results with the actions used, and the military semiautomatic rifle was passed over until our Garand and the Russian Simonov 36 went into production over forty years later.

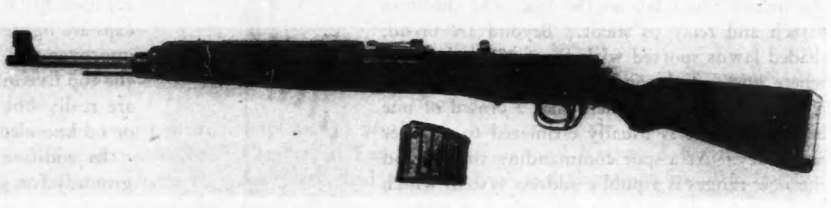
In 1936, at a time when the Garand was a "secret weapon" in this country, commercial publishing houses in Germany were selling books on weapons in which the Garand was described and illustrated. These books were readily procurable through Brentano's and other reliable book importers.

It is evident, therefore, that the German Army *knew* about semiautomatic rifles. They just failed to evaluate them properly. When they tackled the Russians, they encountered limited numbers of the Simonov 36's—gas-operated rifles of crude manufacture and rather complicated lock design. But when, in 1938 and 1940, they were faced with the fire of improved Russian Tokarev rifles, they promptly turned their attention to one of the few fields in which they had slipped up badly.

And here a most important consideration for the future enters into the picture of arms development: The Germans, who, like ourselves, had always prided themselves on the excellence of the machining of their weapons, realized that their only possible hope lay in mass production. In their case, this meant concentrating on simplicity and on stampings and castings, thereby reducing machine-tool operations.

The machine work which went into their original turning bolt 41M and into their blast-cone gas-action 41 and 41W has largely disappeared in the Gewehr 43; yet the 43 is cheaper, easier to produce, and more efficient than either of its predecessors.

In short, the Germans are managing to combine excellent engineering and a maximum of casting and stamping to produce cheap and readily manufacturable rifles.



German Gewehr 43, caliber 7.92 mm., with ten-shot magazine shown detached. (Weapon may also be clip-loaded.) Bolt handle is on left side. Safety projects below rear of bolt housing. Receiver is cast and many other parts are stampings, yet the weapon is even more efficient than its predecessors.

Let's take a look at this Gewehr 43. It is a rifle with clean lines, about forty-four inches long. It weighs 8.9 pounds, has a twenty-two-inch barrel, is sighted from 100 to 1200 meters, and is notched to receive a telescope sight with short eye relief. The cocking handle is on the top left side. The bolt may be locked open and ten cartridges stripped into the magazine from the top from standard five-shot Mauser clips, or the magazine may be removed from the bottom of the receiver (by pushing forward the locking catch directly behind it) and a loaded magazine inserted from below. Pressing the bolt catch on the right rear side of the receiver frees the bolt assembly and permits the coiled spring behind it to drive the moving units forward to load the rifle.

This bolt assembly is the heart of the weapon. It is a compact unit consisting of a bolt housing, which is a stamping of excellent quality and which is fitted with a sliding cover, together with the bolt slide, firing pin housing, firing pin extension, and the recoil spring and guide.

The operating (or recoil) spring and guide rod are seated in the housing behind the bolt to provide the power for driving the mechanism forward. This spring is compressed around its guide, of course, during the rearward motion of the bolt.

The bolt itself is cut away on top to permit the insertion of a loose operating slide to which is attached the bolt handle. This slide acts against a firing pin housing containing the firing pin and its extension, to cam the bolt locks, which operate through bolt cuts on right and left during rearward motion.

When the bolt is fully forward and locked, the cartridge chambered, and the extractor snapped into the cartridge extracting groove, the top face of the bolt slide rests against a hole drilled straight ahead through the receiver above the line of the bolt.

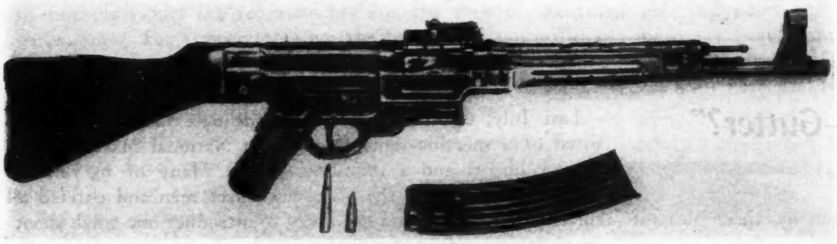
A long thin steel operating rod and its coil return spring are seated in the top of the receiver above the line of the barrel, one end in contact with the operating slide, the other end touching a short free "tappet" piece which floats in a chamber parallel to the barrel, supported by a gas chamber rising from the gas port drilled in the top of the barrel.

As the trigger is pressed to rotate the sear away from the hammer, the hammer flies forward under spring tension to strike the firing pin and fire the cartridge. The bullet passes under the gas port (about twelve and one-half inches back from the muzzle) and a quantity of gas rushes through the port and into the chamber. Here it strikes a sharp blow against the tappet (or piston). This blow is transmitted to the operating rod, which flies back through its hole in the top of the receiver below the rear sight, to drive the bolt slide back. This slide is traveling independently of the locked bolt while pressure is high, carrying the firing pin housing also. As the pressure drops, the continued rearward motion of the sliding piece carries the firing pin housing to the point where its shape causes it to cam the two bolt locks out of the receiver cuts and into the sides of the bolt. From this point on, the bolt assembly travels rearward as a unit to extract and eject the empty case, cock the hammer, and compress the recoil spring.

On forward motion, the spring continues to force the firing pin housing and bolt slide ahead after the bolt is fully forward. The firing pin housing cams the locking pieces out of its path within the bolt, into locking slots in the receiver walls.

The gas system is the one used in all Russian semiautomatic rifles, while the general locking idea patterns after that of the German highspeed Machine Gun 42—that remarkable weapon which provides the quickest barrel-change feature of any gun made, and which is also noteworthy for its ability to operate without having to be checked constantly for head space!

The receiver is machined only where absolutely necessary. Torsion (or "mousetrap") springs are widely used, and manufacturing operations have been held to a minimum. A cleaning rod is carried below the barrel, and the rifle has the customary German carrying sling. No bayonet lug is included.



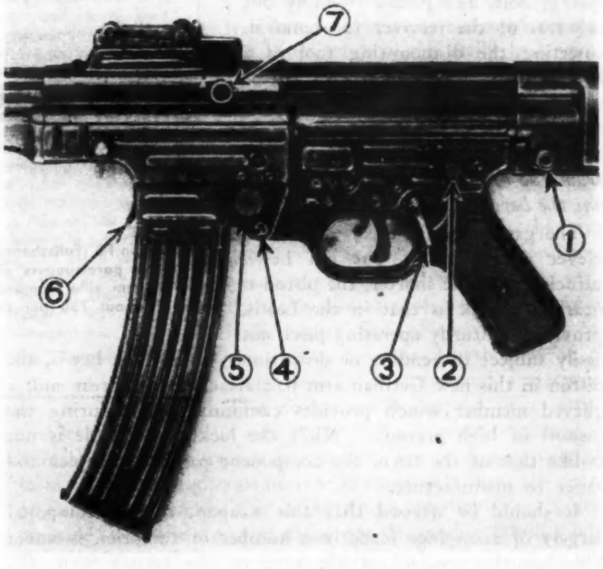
German MP 43 (kar. 44) fires the 7.92 short cartridge shown in comparison (above) with the standard German rifle cartridge. Picture shows dust cover open, bolt back. The weapon is remarkable for many fine engineering features and for the strength of its cheap, easily manufactured, stamped-out parts.

2. MP 43 (kar. 44)

Months ago (in the September, 1944, Rifleman), we reported the new German carbine, officially listed as the MP (Machine Pistol) 43. The announcement of that weapon attracted so much attention that further discussion of it should be of interest, since the 1944 version of the weapon again shows design and manufacturing features worthy of attention.

The original weapon of this type, using the new 7.92 mm. short cartridge, was first reported by the Russians in 1942. It was listed as a "Machine Carbine," which is normally the British designation for what we call a submachine gun; that is, a full-automatic weapon to shoot pistol cartridges. In 1943, the Germans listed the gun officially as "Machine Pistol 43"—machine pistol being their designation for a submachine gun.

Now, in 1944, the gun and magazine bear, normally, both the "MP" and the "kar." stamps—indicating, perhaps, that, for different units or for tactical purposes, the weapon is placed in both classifications. There are also six or more manufacturers' marks on various parts—indicating certainly how the Germans have grasped the idea of widespread assembly parts manufacture.



Close-up of MP 43 (kar. 44) (1) Receiver locking pin. (2) Push-through fire-control switch. (3) Thumb safety. (4) Trigger housing pivot pin. (5) Magazine release catch. (6) Magazine housing. (7) Bolt handle.

While the description originally given covers the general details of the new weapon, its special features bear emphasis. For instance, instead of the typical trap in the butt plate, this weapon has a trap on top of the stock. (Incidentally, it is the only trap so constructed that it can be opened without tools and without breakage of fingernails and resultant profanity!) It carries a dismounting tool and a magazine loader, the latter a simple small stamping which is fitted over the mouth of the magazine and into which cartridge clips may be inserted for straightline stripping into the staggered box magazine. The magazine holds thirty cartridges.

On the right side of the receiver, a close-fitting dust cover is spring-held tightly over the ejection port. The weapon, which fires from a closed bolt, may be carried ready for instant use with the dust cover closed. When open, the cover lies flat against the receiver.

A fire-control switch of the simple Sten Gun type is located directly above the pistol grip. The rate of fire is close to 800 per minute. As in the Schmeisser Machine Pistols and in the Gewehr 43, the bolt handle is on the left side.

The safety is a pivoted lever just above the hand grip. With the exception of the automatic "squeezer"-type safety used in the Degtyarov, it is the handiest safety yet to appear.

The ease of takedown is remarkable. First, a spring-held locking pin behind the trigger assembly is pulled out from the right side. This permits the stock and the attached buffer housing to be drawn off to the rear. Next, the entire trigger assembly unit swings downward on its hinge just below the magazine catch.

Pulling back on the bolt handle will now bring the recoil spring, bolt, and piston assembly out the rear of the receiver for removal. Inserting the dismounting tool in a hole in the nut at the forward end of the gas tube on top of the barrel permits it to be unscrewed from the gas cylinder. *The gas tube may be cleaned from the breech as easily as swabbing out the barrel itself.*

The gas system in this weapon is a clever adaptation of our old Lewis principle. While shorter, the piston is nearly as thick as that in the Lewis, providing a sturdy operating piece not easily subject to bending or distortion. Unlike the Lewis, the piston in this new German arm has, attached to its rear end, a curved member which provides camming action during the instant of high pressure. While the locking principle is not unlike that of the Bren, the component parts are simpler and easier to manufacture.

It should be stressed that this weapon, though composed largely of stampings made in a number of factories, is *not* a "blacksmith's special" of the type of the British Sten, the Russian PPSH 41, or our own M3 Submachine gun. It is engineered in every detail and many of its engineering features may be worthy of adaptation to some of our own weapons.

3. FG 42/44

The Fallschermjaeger Gewehr 42 (paratrooper rifle) is little changed in its new version. This weapon fires the standard rifle 7.92 mm. cartridge from a box magazine inserted from the left side of the receiver. It has a nineteen-inch barrel, is about forty-two inches overall, and weighs nine and three-quarters pounds without its magazine. It, too, has a fire-control switch permitting single-shot fire from a closed bolt and full-automatic fire from an open bolt (to facilitate cooling), as in the American Johnson Light Machine Gun. A stamped bipod folds up under the barrel. A compensator and a bayonet are accessories.

The gas cylinder is *under* the barrel and the operation and locking are definitely derived from the gas-piston-operated, turning-bolt Lewis design. This gun was originally manufactured, according to trustworthy reports, in French factories during the German occupation.

All three of these new German infantry weapons show the recognition by our enemies of the value of accurate rapid fire at the command of the rifleman. They show design features worthy of consideration. But, most important of all, they show that Germany is equipped to manufacture cheap efficient weapons in widely dispersed and separated factories. In the future we must be prepared not only to observe carefully all of their arms factories, but we must watch also all toy, tool, or metal working places capable of doing simple stamping, forging, or casting.

A big job lies ahead in the field of arms control. Study of the new German arms developments indicates just how big that job is!

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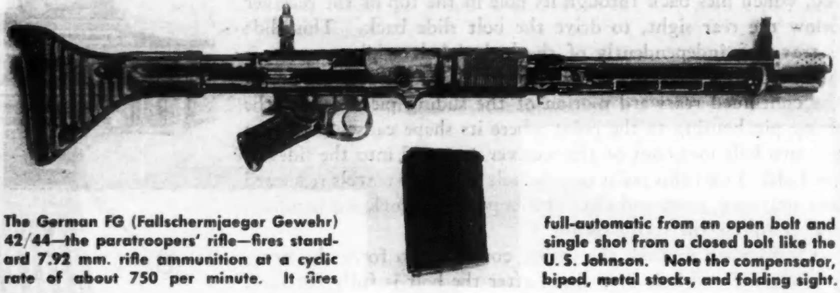

The German FG (Fallschermjaeger Gewehr) 42/44—the paratroopers' rifle—fires standard 7.92 mm. rifle ammunition at a cyclic rate of about 750 per minute. It fires full-automatic from an open bolt and single shot from a closed bolt like the U. S. Johnson. Note the compensator, biped, metal stocks, and folding sight.

"What d'yuh Mean—Gutter?"

(Continued from page 23)

drawn into closer contact with the game by these pleasant surroundings, are learning to shoot.

Grumman matches are as up-to-date as the club. Prone matches are varied by fifty-yard and fifty-meter four-position matches, by 100-yard offhand matches, and by rapid-fire matches. To encourage the pistol tyro, a match was introduced recently in which the Army-L target was used for Slow Fire at fifty yards, and for Timed and Rapid at twenty-five yards. At the September registered match, there was a match for those not yet classified, planned to encourage the tyro.

Last July, Grumman held a round-house shoot which consisted of a metallic-sight Dewar, the National Match Course (any caliber), and a round of skeet. Many of us riflemen braved the laughs of the pistol and skeet men and entered all three matches. It was a good way to introduce one-track shooters to other kinds of shooting.

Among several innovations planned is an exhibition shoot featuring skeet, trap, rifle, and pistol experts.

Val Cleaver is already dreaming about simple overnight accommodations for shooters and their families, eliminating the daybreak rising, the hurried breakfast, the refusal of the family to leave THAT early, and the howls because Pappy is using the car again that Sunday. Maybe there'll even be a swimming pool! . . . He can dream, can't he?

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Hunting Scopes and Mounts

(Continued from page 9)

top of the stock comb, they are quite comfortable and efficient.

Reticules range from elaborate designs with three or more posts projecting out into the field of view like so many sore thumbs, to simple cross hairs with or without a center dot. Some of the latter employ cross hairs so fine as to be practically invisible, the round center dot seemingly imposed on the lens itself.

I do not like post reticules for any work. There is always some aberration at the top of the post and, too, they cover up too much of the field. This makes it difficult to hold over an object at long range, and if the shot happens to be low the post obscures the strike of the bullet, not allowing the rifleman to spot his shot and hold higher for the next one. Furthermore, in bad light, it is sometimes impossible with a post reticule to tell how high or low one is holding on an animal, as the top of the post blends into the beast. With a simple cross-hair reticule (which I prefer) or cross hairs with Lee center dot, the vertical and horizontal wires give the shooter a very clear picture of where the intersection or dot is placed on the animal.

Personally, I prefer medium cross hairs and have found that in dim lights, when the intersection is placed exactly on a small target, the horizontal wire permits accurate estimation of elevation, and the vertical line gives a clear idea of exactly where the intersection is, even though the light be so poor as to cause the intersection to blend into the object. Some portion of the vertical and horizontal wires will usually cross a patch of ground or timber with a lighter hue, clearly showing their position, whereas a post blends into the object and is lost.

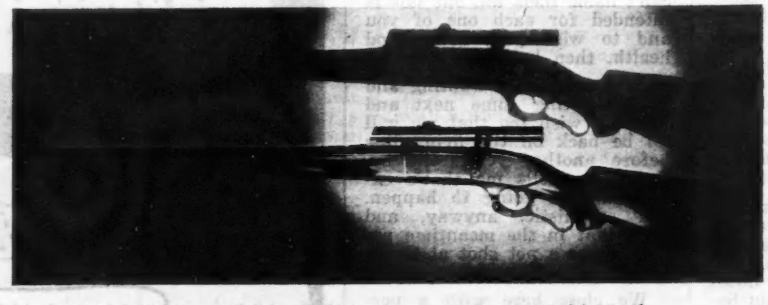
KEEP UP WITH MEDICINE

Psychologists queried 242 men employed in a large industry about their major interests. Of this number 201 were college graduates with degrees from leading universities; 41 did not have degrees. The chief desire of more than 95 per cent of the men was a comfortable, fairly modern home, which they could own, with a nice yard and a radio. Next, they wanted positions of responsibility and wanted to be like Thomas Edison and Henry Ford. They liked least the occupations of janitor, chimney cleaner, ledger clerk, sewer cleaner, and garbage collector. Their chief comic hero was Popeye, who interested 86 per cent, and they were least interested in Uncle Wiggley and Little Mary Mixup. High percentages of the men were enthusiastic about developing mechanical ability and spending quiet evenings at home. *Their chief sports ambition was to hit a bull's-eye with a rifle at 100 yards.* They desired least an ability to paint modernistic pictures. They had more interest in "*Good Housekeeping*" than in any other women's magazine. More of them read regularly "*Reader's Digest,*" "*Life,*" and "*Time*" than any other magazines.

—"Good Housekeeping," October, 1944.

If the hunter wishes a clearer, larger aiming point than the intersection of the cross hairs, T. K. Lee, of Birmingham, Alabama, fits a center dot at the intersection. The dot can be sized to suit individual eye requirements and the type of shooting to be done. For timber shooting, the best choice is usually an easily defined center dot. For long-range, open-country shooting plain cross hairs are often preferred, since even the intersection of fine to medium hairs will cover a coyote's head completely at long range.

My own preference in scope reticules is the plain cross hairs with a second horizontal wire that can be adjusted for longer ranges, the upper horizontal cross hair being set for the point blank of the rifle. Such a reticule will be available after the war. I have used this reticule for several years and prefer it to any other. On the .375 Magnum I adjust the upper horizontal hair for 200 yards and the lower one for 400 yards. On higher velocity custom rifles, I usually set the upper hair for 300 yards and the lower one for 500 yards. This system has worked perfectly, enabling me to take various big game animals with clean one-shot kills at extreme ranges.



A Stith-mounted Zeiss Zeilklein scope on a Savage Model 99 rifle.

Select a scope reticule that best fits your needs according to the type of country and game you are going to hunt. For usual close-range timber shooting, as well as for all fast offhand snap shooting and running game, the cross hair with a fairly large Lee center dot will give the best of results. That black dot looms up in any shooting light and is very fast.

To keep the scope free of dust or water, it is best to have some means of covering the lenses when not actually looking for game. With some mounts, the usually furnished leather lens caps can be used and flipped off with the thumb when going into action. Some mounts prevent their use, however, but a couple of cleaning patches stuffed in the objective end of the scope will serve. Another very good system is to cut a rubber band from a large inner tube, leaving the band wider than the diameter of the scope tube at both ocular and objective ends. Slip this rubber band over both ends of the scope and it is dust- and waterproof. This cover can be moved in a second.

After you get your rifle scope sighted, practice aiming at different objects. Practice particularly at catching moving objects in different lights until your eye instantly finds the center of the scope when the rifle is thrown to the shoulder. A little practice along this line will make you thoroughly familiar with the scope-sighted rifle and will enable you to bring it to bear instantly on any game animal and from any position.

Ocular lens position, too, is a compromise and when set exactly right for prone shooting may be a trifle long for offhand. Mount the scope with the ocular lens where it will be comfortable and where the eye can take in the maximum field in the positions most used. I mount my scopes ahead of the bolt lift since many years of prone match shooting have made me shoot with my head well forward on the stock. This position does not always allow a full field of view offhand, but it does allow enough field for all practical purposes.

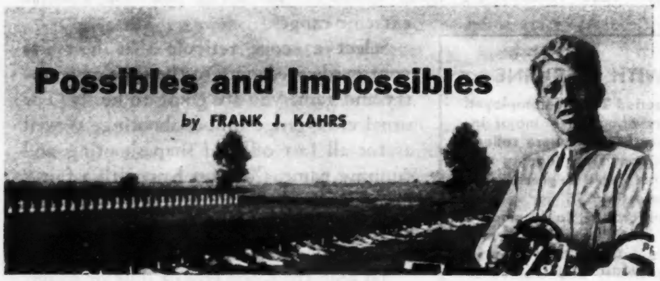
Buy the best scope you can afford, learn to use it properly, give it proper care, and you will be well repaid in results for the time and money so spent.

(Part Two, "The Mount," to follow.)

A PAPER FOR PEOPLE WHO SHOOT

Rifle

VOL. 7, NO. 12 First Class Reading Matter for Rifle Shooters BRIDGEPORT, CO



Possibles and Impossibles

by FRANK J. KAHRS

The other day I received a letter from a chap, who rather nonchalantly (I think that's the word I want to use) stated that he would like to have a 10X brassard for his shooting coat. He qualified for this using a Remington "Matchmaster" 513T target rifle during practice.

Well, I have always maintained that the 513T was a real gun and would shoot almost as good groups as its big brother, the Model 37, but I was afraid to bear down too strongly on that because I felt there was danger of selling a lot of people off the idea of getting a 37 and causing a rush toward the 513T, as the last named rifle sells for one-half as much and then some as the 37.

As you can't buy either one of them now, I feel safe in telling the story. All of which makes me want to say that we ought to start producing these 513T's pretty soon now, but I'm afraid it will be a long time before we get any 37's. Never saw it to fail yet. We were just hitting our stride with that 37 and they were selling like hotcakes, and really turning in some beautiful performances, when along comes the war and out goes the 37. Having lived through three wars now, I feel that when we get through with this one, there will be little danger of any more coming along until we get these two target rifles again firmly established on the firing line.

It's the same way with ammunition. I don't see any in sight for quite some time to come. I'm hopeful, however, that before too long good old Targetmaster and Palma Kleanbore will be coming off the line.

I would like to be able to say that during the layoff we discovered new ways and means of making better cartridges, and that the groups are now down to ½ inch at 100 yards, but being a truthful man, I can't tell a lie. Seriously, I wouldn't be surprised if the boys have something up their sleeves, both of them, and while I know they have been busy every minute on our war production, there have been times when they could give a little thought to new ways of making the 22 better than ever.

So, I am optimistic, but only to the extent that I will confine myself to ¾ inches at 100 yards if I can't get the half inch.

. . .

Yes, another year has rolled around and we are still in here pitching and hoping that this old world will soon settle down to something like normalcy.

We did little hunting or fishing during the year. Got out on the range once or twice to see if the old eye and trigger finger were in harmony, and much to our surprise and delight we did group them about as well as ever. Strangely enough, we did all this with plain iron sights which indicates that while we are getting older, our eyes are as good as ever. We hear the call, "Come and get it" as well as ever, which indicates that our hearing is still good.

Getting back to my good friends, it is my custom each year to sit down and give a little thought to those good fellows, and this includes the girls too, with whom we have spent many happy hours on the range and in the field. Of course, we can't name them all, but this is intended for each one of you and to wish you, first, good health, then happiness.

Of course, good hunting and good shooting come next and here's a wish too that we will all be back on the firing line before another year rolls by. Something tells me that's exactly what's going to happen. I'm optimistic, anyway, and hope that in the meantime nobody takes a pot shot at Santa Claus.

We close here with a personal wish to each of our good friends at home and abroad for future health, happiness and much good hunting.

RIFLE CLUB

BUY BONDS NOW FOR YOUR POST-WAR RIFLE CLUB

CROSSTOWN, U. S. A. One rifle club member has suggested that a good way for a club to "salt away" enough money to make the expansions they are planning for the post-war period is to invest in United States War Savings Bonds.

The 6th War Loan Drive began on November 20th with an objective of 14 billion dollars. Put your idle club funds to work for Uncle Sam—invest them in War Bonds. Remember it costs more to fight our Pacific War and the war won't be over until both enemies are whipped. The cry is "On to Tokyo." Let's echo the cry with bonds!

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Clubs May Need Mo Firing Points for Futu Expansion of Membersh

MIDDLETOWN, U. S. DECEMBER, 1944. Pla for future expansion shou provide for adding firi points for both rifle and pi tol shooting to accommoda increased membership rol

Some clubs are conside ing the installation of tr and skeet shooting and te tatively are setting asi space for these popul shooting sports. Rifle pistol club officials who a not familiar with trap a skeet shooting and instal tion of equipment may tain complete informati by writing to Trap a Skeet Section, Remingt Arms Co., Inc. Remingto experts on the clay targ shooting sports will be gl to review plans and provi information on the comple line of products for tr and skeet shooting—tra Remington Blue Rock cl targets, shotguns and shel

AROUND OUR CLUB . . . . ***From Us to Yo***

MERRY XMAS
AND A HAPPY NEW YEAR

Ren gton **News**

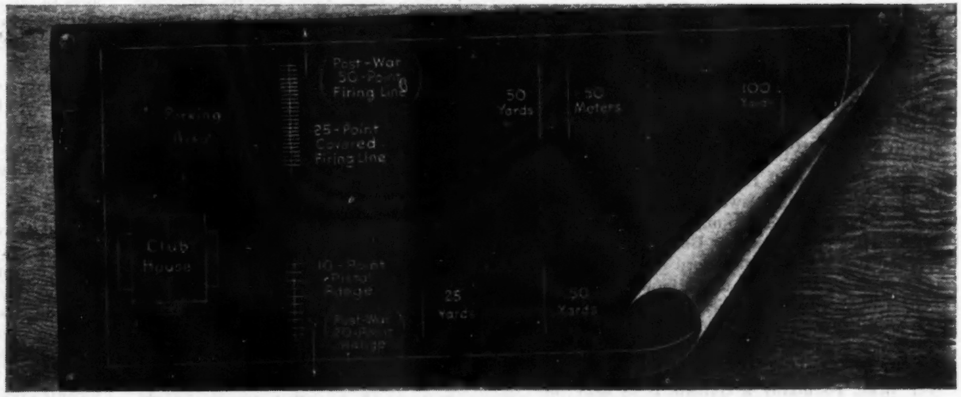
WEATHER:
EVEN SHOOTERS TALK ABOUT IT
BUT DO NOTHING ABOUT IT.

, DECEMBER, 1944

FREE: To Readers of American Rifleman

B PLAN RANGE EXPANSION

ARTICLE IN AMERICAN RIFLEMAN SPURS INTEREST OF CLUB MEMBERS TO DRAFT PLANS FOR RANGE IMPROVEMENTS FOR POST-WAR PERIOD



Suggested plan for proposed range and club meeting place includes ample parking facilities, well-planned ranges for both rifle and pistol shooting (with room to grow), and an adequate club house.

MIDDLETOWN, U. S. A., DECEMBER, 1944. A few months ago, in the American Rifleman, an anonymous NRA member shot a right jab at rifle clubs in general and he didn't pull his punch. Referring to shooting ranges as too often being "abandoned cow pastures, old quarries, and dark cellars," he emphasized that rifle clubs must do something to attract the interest of more shooters and spectators. "Give the range some pleasant surroundings," he said, "a bit of grass, a shrub or two; if it's outdoors, a soft drink bar and some easy chairs; if it's indoors, something you could be proud to show your friends."

Live-wire members of aggressive rifle clubs in many parts of the country read the article and resolved to make plans to lay out new ranges that will have attractive surroundings, and that will provide types of shooting to satisfy all members. Clubs will find that they can expect to increase their membership when they have constructive plans to improve their ranges and provide a place where all members of the family can go for recreation.

Suggested plans call for sufficient grounds to permit the safe installation of rifle and pistol ranges. It is desirable for a club to be located so that more ground can be acquired when expansion is necessary. Adequate parking area for cars is recommended with a comfortable club house, 50-yard, 50-meter, and 100-yard rifle ranges, and 25-yard and 50-yard pistol ranges.

Many clubs believe it is time to prepare a tentative design for the club house. Farsighted clubs recommend providing a basement area to be laid out for indoor shooting. On the ground floor there should be a club room, rest rooms, and other conveniences to assure the comfort of members and guests.

A program of expansion should be planned only after making a careful study of the club's present and future financial position. Membership dues and entry fees must be fixed to meet operating expenses and maintain a satisfactory balance in the treasury. A strong financial position is the best insurance to hold together the organization and maintain the interest of members.

It is not too much to make every effort to place shooting as a sport on a par with golf, tennis and other forms of recreation. Such plans, when completed, are bound to attract many new shooters—and spectators, too.

Clubs desiring further information and suggestions for range plans and layouts are invited to write Rifle Promotion Section, Remington Arms Company, Inc., Bridgeport 2, Conn.

"FUTURE PLANS" MEETING STARTS BALL ROLLING

MIDDLETOWN, U. S. A., DECEMBER, 1944. The first step for any rifle club to get started with plans to expand club facilities and increase membership is to hold a "Future Plans" meeting.

Club officers should set a date for the "Future Plans" meeting and mail an announcement to all members, asking them to be prepared to offer suggestions.

Ideas should be segregated and time should be allotted at the meeting to discuss suggestions relating to the improvement of range facilities, club house, parking area and real estate. Committees should be appointed for studying plans and discussing the raising of necessary funds.

REMINGTON RIFLES AND AMMUNITION RECOMMENDED

BRIDGEPORT, CONN., DECEMBER, 1944. When target rifles and match ammunition again can be purchased in unlimited quantities, remember to handle and examine carefully the Remington Rangemaster, Model 37, and Matchmaster, Model 513T 22-caliber target rifles; and shoot Palma Kleanbore and Police Targetmaster ammunition.

Remington
POLICE TARGETMASTER
KLEANBORE
22 LONG RIFLE LUBRICATED
Remington
NON CORROSIVE
TARGETMASTER
22 LONG RIFLE
PALMA
Lubricated Bullets
KLEANBORE
REMINGTON ARMS COMPANY, INC.
.22 PALMA KLEANBORE
NON-CORROSIVE
REMINGTON KLEANBORE
PALMA

Rangemaster, Matchmaster, Palma, Kleanbore and Blue Rock are Reg. S. Pat. Off. by Remington Co., Inc.

POWDER SMOKE: READERS COMMENTS THE NEWS DESK

RIFLEMAN INDEX

Each year in the past we have published, in connection with our December issue, an index of the year's RIFLEMAN contents. Such an index is of value to readers who bind or file the magazine by years—of little or no value to others. . . . Too, an index so published cuts two or more pages from the content of the December issue and the paper used is chargeable to our magazine quota. (An index published separately is chargeable to our job-printing quota.) . . . We are printing our 1944 Index separately. If you want a copy, we will be happy to mail one to you on request.

BOOK REVIEWS:

"MILITARY LAW FOR THE COMPANY COMMANDER"

By J. J. Appleton, B.S., LL.B.

Brigadier General Haig Shekerjian says this little book "is the answer to a longfelt need for a practical solution to many of the problems presented to the Company Commander."

Practical is exactly the word to describe the treatment and contents of "Military Law For The Company Commander." It is the most common-sense, practical guidebook for military men that we have seen.

The average American Army wartime officer, being essentially a civilian, is as hazy on military law as he is on civilian law. Company administration, discipline, and efficiency frequently suffer because officers hesitate to take action for fear of making a blunder.

Every company officer and First Sergeant will welcome this book as a compact, lightweight, but rugged friend in need. (It is not applicable to the Navy or Marine Corps.)—C.B.L.

(117 pages, cloth, National Law Book Co. For sale through NRA Book Department.)

COMPETITION WANTED

The Lewisburg Rifle and Revolver Club would like to schedule Indoor, 50-foot, postal rifle matches with other shooting organizations. Those interested write Rex E. Robinson, 411 St. Catherine St., Lewisburg, Pa.

Wanted: Postal matches with rifle clubs. Any club interested please contact: H. E. Witmer, Secretary, Ashland Rifle and Pistol Club, 622 Ohio Street, Ashland, Ohio.

STOLEN GUNS

One Smith & Wesson, .38 caliber, number 623494, target grip. F. G. Darby, Naval Hospital, Annapolis, Maryland.

COMING EVENTS

Registered Class C Tournaments

California, December 17—San Francisco Police Department Monthly Pistol. E. J. Dutil, 324 16th Avenue, San Francisco.

Unregistered

New Jersey, January 7—The Presidents Match. 50 shots prone at 50 meters, Union City. Sponsored by Swiss Rifle Association. Catherine Nutusko, 457 West St., Union City.

January 21-22—Small Bore Rifle Matches, Paterson. Sponsored by Columbia Rifle Club. John Berger, 447 Kearney St., Paterson.

Pennsylvania, December 17—First Annual Indoor Small Bore Rifle Match, Llanerch. Sponsored by Llanerch Rifle Club. Simon Oster, 2800 Township Line, Llanerch.

Russell Wiles, Sr.

Russell Wiles, Sr., one of the "fathers" of the modern outdoor small-bore rifle game in America, died suddenly in his Chicago law office on the afternoon of November second.

His interest in shooting seems to have developed from his experience in the Illinois State Guard during World War I. Possessed of an unusually keen, analytical mind, he saw the crying need for greater civilian preparedness for war and recognized the potential training possibilities of a properly organized .22 caliber rifle program. One of the nation's outstanding patent lawyers, he applied his engineering knowledge and boundless enthusiasm to "selling" the small-bore program to military and civilian shooters alike; to the development of regulations specifically adapted to the .22 rifle game; and to the redesign of targets, rifles, and ranges to best meet the requirements of the small-bore program which he visualized. Many long-accepted traditions had to be modified or discarded, but Russell Wiles kept at it. Gradually he made converts. Gradually his ideas proved themselves. Many men have labored and contributed to the growth of the small-bore program and to the development of small-bore equipment but most have unwittingly been building around the solid central core of an *idea* which was largely designed in the enthusiastic mind of Russell Wiles, Sr.

He was elected to the Board of Directors of the National Rifle Association in 1922 and took an active part in the major reorganization of the Association in 1925-26. He was Chairman of the Small Bore Committee during the following decade when the small-bore rule book was taking form and was largely responsible for the adoption of the double-target system. He was still an active member of the Board of Directors at the time of his death.

His keen, logical, pioneering mind will be missed as we study the problems and draw the plans for the postwar development of the Association. He was a warm-hearted sportsman to whom victory meant nothing as against the method by which victory was achieved. So long, however, as the battle was fairly fought he gloried in it, and until ill health impaired his strength he was one of the coolest, toughest competitors and team coaches to be found on the nation's small-bore firing lines.

Thousands of riflemen who respected him as an acquaintance and hundreds more who admired and regarded him affectionately as a friend join in extending their condolences to his wife and children.—C. B. L.

Major General Paul W. Newgarden

"The more I see of a wartime army the more convinced I am of the importance of the old rifle and pistol clubs and competitions we used to have. You will be interested to know that everyone in this Division has started out on an intensive drive in small arms firing, competitive as well as otherwise, and that all my senior officers, including the artillery officers, agree that the habits one needs to become a successful rifle shot are the same as one needs to become a good gunner on a 75, in a tank, or on a 105 howitzer. It is too bad we do not have more shooting meets in all the training centers and OCS camps so that every newly created officer could start out with a thorough dose of proper rifle shooting habits from which he could branch out into his specialties."

Major General Paul Newgarden, commanding the 10th Armored Division, wrote the above-quoted paragraph just a short time before an airplane crash ended his life. General Newgarden was returning to his Division from a conference in Washington when he was killed on July 14, 1944.

A West Pointer, Paul Newgarden was actively interested in small-arms training from the time of his graduation from the Academy. He served as frequently as possible either on the operating staff or as an Infantry Team member at the National Matches. On several occasions he took a few days leave during the National Match period to fly or drive to Camp Perry at his own expense to fire in one or two matches and to renew old acquaintances. He was Distinguished with the pistol and was one of the Army's early proponents of the small-bore rifle.

His death resulted in the loss of a fine officer, a splendid gentleman, and one of the civilian riflemen's best friends in the Armed Services.

Brigadier General Walter G. Layman

Apparently as a result of the terrific pace at which he had been driving himself, General Walter G. Layman died suddenly in his quarters in England.

It was under the direction of Colonel "Sandy" Macnab that General (then Captain) Layman first put in his appearance as a member of the National Match staff. First as an assistant and then as Director of the Small Arms Firing Schools at Camp Perry he played a major part in the early development of the special Police School which contributed so much to the subsequent development of police pistol training in the later F.B.I. schools and on police ranges throughout the country.

Never a competitive shooter or hunter, General Layman's outstanding ability lay in the direction of organizing and teaching. For months prior to his death he had been in charge of American Army schools in the great training areas in England.

Colonel Joseph F. Hankins

Big, genial, lovable Joe Hankins is dead. Joe, the good-humored, philosophical backbone of many a Marine Reserve Rifle Team; the man who "came up the hard way," playing always on the theme that he was just an Alabama country boy trying to get ahead.

A Jap sniper got Joe on "Dead Man's Curve" at Peleliu. Got him just once—but that once was for keeps. A lot of Marines, moving back and forth between the front lines and the rear areas, died on that little stretch of exposed road. Its nasty reputation had been well established by October fourth, but there was business to do up front that day so Joe started up—started 'round Dead Man's Curve in his jeep. Three hours before he had driven unharmed through a hail of machine-gun bullets at that same spot. This time a lone rifle spoke. Joe Hankins had been one of the persistent advocates of sniper training for United States Marines. A lone rifleman, a Jap sniper, killed Colonel Joseph F. Hankins, USMC.

As an enlisted man, Joe had established his shooting reputation on the Marine Rifle Team. Returning to civilian life, he resumed his work as a mining engineer. Commissioned in the Marine Corps Reserve, he served as a shooting member or team officer on practically every U. S. M. C. R. rifle team until he was called to active duty at Marine Headquarters to serve as assistant in the Office of the Inspector of Small Arms Practice. He was one of the first Marine Reserve Officers to be called to active duty. He went overseas with the Marine contingent that occupied Iceland. Returning from the North Atlantic he headed straight for the Southwest Pacific. Joining the famous 1st Marine Division he commanded an assault battalion in the Cape Gloucester operation and was awarded the Navy Cross "for continually exposing himself to danger" while directing and encouraging his troops to push forward. Subsequently promoted to full Colonel, he was made Provost Marshal of the 1st Marine Division and was serving in that capacity at the time of his death.

Joe Hankins was a keen, imperturbable competitive shot; a confidence-engendering, steady coach; a splendid officer who enjoyed the admiration and good will of all ranks; and a sportsman in the finest sense of the word. His memory will always be cherished by those who were privileged to call him friend.—C.B.L.

Colonel Herbert G. Catrow

Another of that generation of Ohio riflemen whose interest in military target shooting made possible the development of the Camp Perry range, died in New York City on October 30th. He was seventy-two years of age. Colonel Catrow was born in Ohio and served for many years in the Ohio National Guard. In the early days of the National Matches at Seagirt and Camp Perry, he was a familiar figure and was particularly known as the donor of the Catrow Cup, one of the best known of the older Service Rifle Trophies competed for in the Ohio Rifle Association section of the old National Match program. A Princeton graduate, he was an engineer and supervised construction of several Army cantonments during World War I.

Lieutenant Don H. Blyth

The death of Lt. Blyth of Slippery Rock, Pennsylvania, has been confirmed by crew members of the bomber of which he was navigator. Lt. Blyth, reported missing since May 27, was killed instantly in the crash of the B-17 in France, then enemy territory, while the plane was returning after a raid on Ludwigshaven, Germany. Lt. Blyth, the son of Don D. Blyth, a graduate of both the Basic and Advanced Schools at Perry and well-known shooter in the Pennsylvania area, was following in his father's footsteps, accompanying him to the National Matches where he attended the Junior School and Matches. The mission on which he was killed was his first.

Francis Washington Breuil

On Friday, October 27, 1944, Mr. Francis Washington Breuil died of a paralytic stroke at his home, "Rehoboth," on the Eastern Shore of Maryland. He had been ill for over a year.

At the age of seventeen, he shipped as a cabin boy on a square-rigger for a trip around the world. Returning to his home in Philadelphia, he tutored in mineralogy and assaying with a view to becoming a gold and silver prospector. The lure of the sea proved too strong, however, and he shipped for a second voyage around the world, this time as First Mate. He was later an Army Scout in the Spanish American War. Following the war, he traveled extensively through the West and Southwest, eventually becoming resident manager of a large silver mine in Mexico.

He acquired the historic old place, "Rehoboth," near Rhodesdale, Maryland, in 1917, and began there to assemble his very remarkable collection of firearms and related items. In his extensive travels, he never missed an opportunity to add to his collection. When the U. S. Government, about the turn of the century, cleaned out the arsenals of the old flintlocks and Civil War muskets, Mr. Breuil was present and acted as buyer for many large interests, acquiring numerous pieces in mint condition for his own collection.

Due to this life-long interest and unusual opportunities to learn, he probably had more first-hand knowledge on American military guns than any other man in his generation. He had his U. S. military arms arranged in chronological order and for many years it was the only place in the country where such a complete list existed. Every piece was in perfect order, and "Rehoboth" was so arranged that any piece could be taken from the wall out onto the front lawn and shot.

Simple services were held for him at his home and, in accordance with his wishes, he was buried in the garden of "Rehoboth" by the Minute Men company he helped to organize.

A. Stuart Boa

A. Stuart Boa, Assistant Sales Manager of the Dominion Cartridge Company, and one of Canada's outstanding riflemen, also well known in the United States and England, died on September 23, aged forty-eight.

He started his military rifle shooting at the age of fourteen when he joined the Victoria Rifles. Three years later he shot with the Canadian Team at Bisley. He served with the Canadians through World War I and was awarded the Military Cross.

He was Canadian Trapshooting Champion in 1922-23 and won the Governor General's Trophy (the equivalent of our National Individual) at Ottawa in 1924. Subsequently he became keenly interested in the small-bore game and was a member of the Executive Committee of the Canadian Rifle Association.

STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., REQUIRED BY THE ACTS OF CONGRESS OF AUGUST 24, 1912, AND MARCH 3, 1933

Of The American Rifleman, published monthly at Washington, D. C., for October, 1944.

District of Columbia, ss:

Before me, a notary public, in and for the State and county aforesaid, personally appeared C. B. Lister, who, having been duly sworn according to law, deposes and says that he is the Editor of The American Rifleman, and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management (and if a daily paper, the circulation), etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, as amended by the Act of March 3, 1933, embodied in section 537, Postal Laws and Regulations, printed on the reverse of this form, to wit:

1. That the names and addresses of the publisher, editor, managing editor, and business managers are:

Publisher: National Rifle Association of America, 1600 Rhode Island Ave., Washington 6, D. C.

Editor: C. B. Lister, 1600 Rhode Island Ave., Washington 6, D. C.

Managing Editor: E. B. Mann, 1600 Rhode Island Ave., Washington 6, D. C.

Business Managers: Executive Committee, National Rifle Association of America, 1600 Rhode Island Ave., Washington 6, D. C.

2. That the owner is: (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding one per cent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a firm, company, or other unincorporated concern, its name and address, as well as those of each individual member, must be given.)

National Rifle Association of America, 1600 Rhode Island Ave., Washington 6, D. C. No stockholders.

3. That the known bondholders, mortgagees, and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: (If there are none, so state.) None.

4. That the two paragraphs next above, giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by him.

5. That the average number of copies of each issue of this publication sold or distributed, through the mails or otherwise, to paid subscribers during the twelve months preceding the date shown above is . . . (This information is required from daily publications only.)

C. B. Lister, *Editor.*

Sworn to and subscribed before me this 11th day of October, 1944.

Louis Q. Bradley,
(seal) *Notary Public.*

My commission expires May 14, 1946.

DOPE BAG ☆ ☆ ☆ Conducted by F. C. NESS

THIS MONTH:

Kilbourn Lovell · Capacity · Accuracy · Reforming Cases · Trajectory Tests · Field Tests · K-Hornet and Lovell Velocities · Kilbourn Hornet Junior · Accuracy and Drop Tests · .218 Mashburn Bee Tested · Ross Rifle Safety Dope · Homemade Bullets Tried · Trade Dope

THE KILBOURN LOVELL

Lysle D. Kilbourn's version of the "Maximum Lovell" was shown in the December Dope Bag. Our objection was that case mortality would be high. Like Gerster, Kilbourn said his cases seem to last indefinitely with accurate loads, which range between 17.3 and 17.8 grains of No. 4198 behind 40-to-50-grain bullets. Even with a test load of 18.2 grains, cases held for an average of ten reloads. He throws this load with a long drop tube on his Ideal powder measure and his normal load of 17.5 grains, with the regular tube. He has been getting good accuracy with groups as small as ⅝ inch and ¾ inch for five shots at 135 yards. I have measured some of his targets fired in a low-wall Winchester S.S. with a 24-inch barrel relined by Diller. There were three groups with the 40-grain 8-S bullet, 17.3 grains of No. 4198, and No. 6½ R.A. primers. All were fired at 135 yards, but on two days. There were two 5-shot groups of 13/16 and 11/16 inch, and one 6-shot group which measured 1¼ inches, vertically. There were five groups fired with 17.8 grains and the No. 116 W.R.A. primer. Five shots with the 50-grain 8-S measured 1¼ inches. With the 41-grain bullet there was a flier, but the remaining six shots measured only ⅞ inch. The 47-grain bullet did the same with six shots, the seventh making a total group of 1 3/16 inches. This latter test was repeated at 100 yards for five shots which resulted in a group of 1 1/16 inches at that shorter range. The 50-grain Sisk bullet was also tried at this range for six shots, and it made a round group of 1¼ inches.

About his well-known K-Hornet, Kilbourn says his standard load is 12½ grains of No. 4227 behind the 45-grain bullet which has been chronographed by J. B. Smith at 3050 f.s. Another grain, or 13½, registered 3150 f.s. Because the 2R Lovell made 3004 f.s. with 15½ grains of the same powder behind the same bullet, Kilbourn argues that 16½ grains in the 2R should do no better than 13½ grains in the K-Hornet, if as good. However, Smith has registered 3280 f.s. with this load, or slightly less powder, and A. R. Weeks got 3280, 3260, and 3285 f.s. with 16.1 grains of No. 4227 and the 45.2-grain bullet in his Johnson-Buhmiller 2R with its 26-inch barrel, and 15.8 grains gave the same 8-S bullet 3210 and 3190 f.s. in a two-shot test in Canada. W.R.A. primers were used. After much shooting, the throat receded enough to allow a greater over-all cartridge length, and the load was increased to 15.9 grains. Two shots with this load gave the 45-grain bullet 3210 and 3210 f.s, on the same equipment. The actual weight, of the two bullets, was 45.3 grains for one and 45.2 grains for the other.

When we got our Farquharson from Kilbourn we tried to reform some 2R Lovell cases in its new K-Lovell chamber. The old cases split at the shoulder, and we got only a few good ones until the brittle part had been annealed, by dipping, in a mass of melted bullet lead. We had no similar trouble with newer 2R cases even without the annealing. These cases were from my own 2R Lovell chamber and they held 16.7 grains of No. 4198. With this load and all our imperfect junk, bullets of various shapes and weights, we reformed 21 cases by firing at 100 yards. All these went into about 6 inches, on the bore sight, and all but five into half that spread. This rifle was formerly equipped with a 6X Malcolm outfit, and we left it on when we shipped the gun to Kilbourn, for the K-Lovell chamber and a new firing pin. The same scope sight is still on this rifle with its axis 1.588 inches above the bore axis.

We have no sizing die and, what is worse, no bullet seater. The makeshift method of assembling these loads, forced on us by this lack, contributes nothing to the accuracy, to say the least. However, we were curious, and tried a few loads for accuracy and drop. With W.R.A. No. 116 primers in our expanded cases we tried 5-shot groups at 100 yards. The 55-grain Sisk-Niedner and No. 4198 did best. With 17.3 grains the group was 1.35 inches. With 17.6 grains there were four in 1.13 inches and a flier. With the maximum load of 18.2 grains all six went into 1.60 inches. This maximum load was fired with the 50-grain Sisk-Lovell bullet in 5-shot groups over three distances for trajectory dope. At 100 yards the group was 1.15 inches. It was 3.56 inches at 200 yards and 5.36 inches at 300 yards. With the group an inch high at 100 yards, it was 3.00 inches low at 200 yards, and 13.55 inches low at 300 yards. The relative gravity drop was 1.33 inches over 100 yards, 9.25 inches over 200 yards, and 23.72 inches over 300 yards. Those impacts practically equalled those of the same bullet in three different 2R Lovell rifles tried over the same range. These were chambered by C. C. Johnson, J. E. Gebby, and Carl Nix, the latter the same as mine.

Because of these relative impacts with the 50-grain bullet, we tried the 55-grain S.N. with 17.5 grains of No. 4198. At 100 yards four shots were in about ¾ inch with a flier inside of two inches. At 200 yards the 5-shot group was 4.70 inches. At 300 yards it was 6.85 inches. With the impact an inch high at 100 yards, it was only 1.95 inches low at 200 yards, and 10.20 inches low at 300 yards. Evidently the 55-grain bullet is better in this K-Lovell case. The firing pin broke before we could try 18.2 grains with this heavier bullet. It did better than any of the other rifles mentioned above by several inches over 300 yards and equalled the 18-grain Lovell with this bullet, and the Lovell High Power, but not the Rimless Niedner Magnum. All loads, at first, punctured primers regularly. We blamed this on a weak or cracked firing pin (which finally broke, as noted) because we lost only a couple of cases and these lost their webs.

A new firing pin was made and fitted, and the charge of 18.2 grains No. 4198 (as held loaded with 55-grain Sisk-Niedner bullet) was fired for relative drop over 300 yards with a net bore angle of about 9 minutes elevation. The 5-shot groups measured 1.21 inches at 100 yards, 2.65 inches at 200, and 4.90 inches at 300 yards. At the latter distance all but one were in 2.71 inches. With the impact an inch above aim at 100 yards, it was 1.85 inches low at 200 yards, and 16.70 inches below aim at 300 yards. The drop indicated was 2.25 inches over 100 yards, 9.92 inches over 200 yards, and 23.60 inches over 300 yards. A 2R Lovell curve.

Fresh ammunition was loaded to try the sizing die and bullet seater (just received) and the same load put four shots in 1.72 inches at 200 yards, with all in 3.90 inches. The same powder load, with 50-grain Sisk bullet, put its five in 1.98 inches at the same range. Our first load of 17.5 grains No. 4198 and the 55-grain Sisk bullet put four shots in 1.40 inches at 100 yards, with all in 1.85 inches. That just about winds up the K-Lovell.

K-LOVELL AND HORNADY BULLETS

C. F. Hober, of Belmont, N. Y., has used most of the .22 center-fire loads, up to the 2R Lovell, and considers his Kilbourn-Lovell to be the best of the light wildcats. It has killed 74 chucks up to 260 paces, no difference being noted between that longest kill and the average. His load is 17 grains of No. 4198 and the Hornady 45-grain bullet. He reforms his cases by firing, the first time with 15 grains No. 4227, and does it on short-range chucks, or those under 100 yards. His rifle is a High Wall Winchester S. S. converted from the 2R by Kilbourn. On it he has an 8-X Jr. Lyman with ¾-inch Lee dot, zeroed an inch high at 100 yards. His longest shot landed about 2 inches below aim without any allowance for range. He uses the Kilbourn sizing die and bullet seater which came with the job, but has fired only 8 shots on paper, for the zeroing at 100 yards. These sighting shots went in 1½ inches.

Lysle D. Kilbourn uses a Sedgley Sporter and says it has shown better accuracy since he chambered it for the K-Lovell. His last time out he got two crows and five chucks without a miss or failure up to 200 yards. Both Kilbourn and Hober report ease of extraction and normal case life. Our own experience with the K-Lovell supports this, even with our heavier loads.

THE KILBOURN-HORNET JUNIOR

In the May Dope Bag we announced this little brother of the Kilbourn Hornet, and our photo showed that the mouth of the K-Hornet Jr. just reached the shoulder of the regular K-Hornet. The new shorter cartridge is 1.065 inches long. Its maximum capacity is 10.5

grains No. 2400, 9.5 grains No. 4227, 8.8 grains No. 4198, or 6.7 grains No. 4759 powder. Lysle D. Kilbourn designed the K-Hornet Jr. cartridge for the weaker S.S. rifles that cannot safely handle the pressures of the Hornet load. In one respect it serves this purpose precisely, by denying entry to the longer regular loads and thus providing a more effective and arbitrary control than that of employing reduced loads in cartridges of regular length. Unfortunately, the smaller case can be overloaded into the field of regular Hornet ballistics and that puts an end to the arbitrary control. However, as long as the shooter will stick to light bullets and light loads the K-Hornet Jr. will fulfill its safety purpose.

Kilbourn's idea was to confine its ballistics to a muzzle velocity of 2000 f.s. with 40-grain or lighter bullets, as we explained in our May announcement. Since then, we have obtained a low-wall Winchester S.S. from Kilbourn for a shooting test and have learned the little cartridge is potentially as powerful as the factory Hornet. Furthermore, the heavier loads seem to give better accuracy and so encourage overloading. Even our milder loads of adequate accuracy indicate they have the ballistics of the modern .22 Hornet factory load whose 45-grain bullet goes 7.5 inches low at 200 yards when zeroed at 100 yards, or 4.0 inches high at 100 yards when on aim at 200 yards. In the K-Hornet Jr. our final load with a 44-grain lead-alloy bullet and 8.5 grains of No. 4227 did not drop much more than 5 inches over 200 yards as compared with the 100-yard impact. For the same load and the 40-grain Spitfire the differential was about 5½ inches, and under these same conditions the 35-grain Spitfire landed only 5.95 inches low at 200 yards. With 9.5 grains of No. 2400, the latter bullet went only 3.10 inches high at 100 yards when zeroed at 200 yards. Apparently, our safest loads in this case were full-capacity loads of No. 4198 or No. 4759 behind any of these bullets.

In our first test at 100 yards, with 35-grain bullets, the best loads were those with the Sisk Spitfire 35-grain and 8.5 grains No. 2400. This combination gave 5 in 2.20 inches and 4 in 1.78 inches. However, 10 grains of 2400 put all 5 in 1.67 inches.

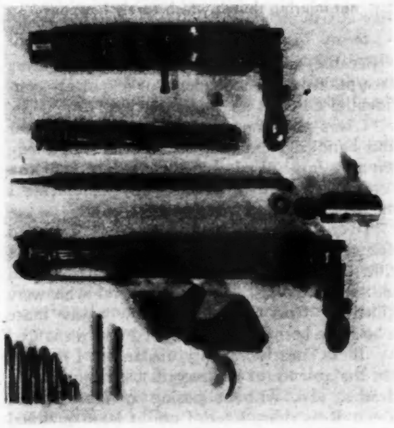
In our next test, involving only a change in scopes, 8.5 grains No. 2400 put the 35-grain Spitfire in 1.85 inches with 4 in 1.40 inches, which was equally good. And 9.0 grains 2400 put 5 in 2.60 inches and 4 in 1.19 inches, without much change there either. The very best load in this test happened to be the 35-grain Sisk-Hornet with 6.7 grains of 4759 which put 5 in 1.45 inches and 4 in 0.62 inches. We hoped that a case full of 4198 would solve the problem and keep the pressure down, but even with the heavier 45-grain Remington-Hornet bullet the spread was closer to 5 inches than to 4 inches at 100 yards. This bullet shot well with a load that was too heavy, or 9.0 grains 4227, which put 5 in 1.93 inches and 4 in 1.42 inches. I think it illustrates my point.

In a subsequent test we got the best results with the 35-grain Spitfire bullet and 10.5 grains No. 2400, with 5 in 1.74 inches, and with 8.5 grains No. 4227 with one group of 1.35 inches. The big group had 4 shots in 1.45 inches which was encouraging. At that time we also found a satisfactory lead-alloy load, with a 44-grain gas check, which put 4 in 1.84 inches with 8 grains of 2400 and 5 in 1.86 inches with 8.5 grains of 4227. With this lead bullet, however, the best load was 6.7 grains of 4759 and the Remington pistol primer which put 10 shots in 2.60 inches and had the first 7 in 1.25 inches and the first 8 in 1.77 inches.

This load was then exploited further in a subsequent test, putting 5 shots in 2.32 inches at 100 yards and 4 out of 5 in 3.12 inches at 200 yards. This load proceeded then to do well also with the 40-grain Spitfire and the 35-grain Spitfire. We added a charge of 9.5 grains No. 2400 behind the 40-grain Spitfire which did almost as well and fired all these loads at both 100 and 200 yards with apparently the same ballistics for all of them.

ROSS RIFLE "FACTS"

After thirty years, the precipitation of opposing opinions continues to becloud the bottle of liquid labelled, "Ross Facts." These are *so* fluid and so flexible that they can be called "facts" only in quotes. Although I feel unbiased and have studiously remained outside the Ross controversy, my occasional and incidental references to the Ross action elicit criticisms from both camps. Proponents condemn me for unjustly kicking the supine Ross squarely in the midddle of its unmerited black eye, while opponents as emphatically object to my merciful restraint. They want the treacherous thing kicked clear out of the ring, claiming it is far more dangerous than any considerate criticisms would indicate. It all revolves about the straight-pull action of the Ross rifle and the automatic unlocking of its bolt threads plus the possibility of their failure to engage and lock.



Ross Bolts, Parts, Trigger, Bullets with the Lyman Reamers and Screws used by Mr. Cox. Complete bolt shows head in extended safe position for certain locking in its seats

To the opponents I say there are several models and versions of the Ross action, although I must admit the wisdom of regarding all with suspicion, the safe with the unsafe, until the individual gun under consideration has proved itself to be above suspicion. To those proponents who foolishly doubt that none of these rifles is unsafe I deliver my ace-in-the-hole, a direct admission of faulty design by the leading Ross authority. Sir Charles Ross lived practically across the street for years and admitted his action was not foolproof against improper assembly and that the bolt could be inadvertently blown out through the shooter's head. That would seem to clinch the matter beyond dispute, but these Ross proponents are a hardy breed and a determined one, who endeavor to keep the question alive by asking, "Why, then, have I never been able to track down one of these dangerous rifles although I try to after every such accident reported?" It is futile to try answering that type of question or man.

Proponent, Herbert Cox, doubts that any Ross receiver will accept an improperly assembled bolt without forcing. However, that merely discloses his limited experience, because many of them will, according to Sir Charles himself. When the head of the bolt slips back (about an inch) on the bolt body the locking threads cannot engage in the closed position which permits firing the cartridge without support. In his own Ross rifles Cox found he had to hold the gun between his knees and use both hands to force home the bolt when so assembled. But, of course, he has not tried all these rifles extant, nor very many of them, for that matter. He also found a simple way of fixing one of his Ross bolts to prevent such unlocked firing, by using a Lyman tap and 6-48 screw. This is shown in one of the photographs. Note the little hole he drilled and tapped in the top bolt with the little screw below it. Below that are shown the bolt parts and, still lower, another properly assembled unaltered bolt. At the bottom, the tap and drill are shown together with a few bullets for the .280 Ross. From left to right these are: 180-grain Match, 180-grain U. S. full patch, 145-grain U.S. hollow point, 150-grain .30-'06 for comparison, and a homemade midget. The Handbook on the Ross Mark III cautions about the unsafe position of the bolt head when improperly assembled. Evidently it was well known.

About his method of foolproofing the Ross bolt, Mr. Cox wrote the directions and instructions which are quoted in full below:

"In the photograph showing the sleeve drilled and tapped, the short-screw is a method which can be done by anyone. The particular screw shown is a Lyman 6-48 Whitworth. The bolt shows 4½ threads filed off the long spline. You will notice that this is directly in line with the ejector groove under the large lug and a total of five threads can be either filed or ground off. Any screw used must have some neck under the head so as to allow positive body binding when screw is driven home. Care must be used not to damage the short spline threads.

"The center of the hole is ⅝ inch from the edge of the cocking piece groove. There is only about ⅛ inch of thread needed on the screw and the end must be filed down enough not to bind the bolt when the screw is driven home, when the head will be cut off and filed flat with the sleeve.

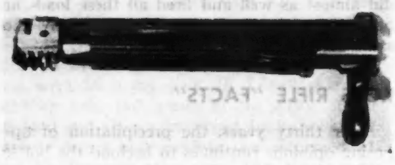
"The position of the longer screw is in the extractor groove but as this is in a difficult position for hand working, I would advise placing it 180 degrees removed, on the opposite side of the sleeve, which will mean a touch-up job on the blueing. No threads are filed off for this operation, the screw coming in the dismantling and reassembly groove in such a position that it stops the bolt when the bolt must turn through the threads into proper assembly. Should the screw be slightly to the rear, it will necessitate that the bolt be pulled slightly forward before it can be turned into assembly. If slightly too far forward enough will have to be filed off the rear thread of the long spline until the bolt will turn. When out of position crosswise it will not allow the bolt to be either assembled or operated. While there is a leeway of 1/16 inch on a No. 6 screw, the allowable error is smaller for the larger screws.

"For this positioning a measurement is taken with the bolt just turned into the dismantling groove and held there while a measurement is taken. The position of the bolt spline is noted and the measurement transposed to the outside of the sleeve. The screw end must be filed to allow free movement of the bolt; cut off and filed flat with the sleeve body after being driven home. Clean all parts and reassemble."

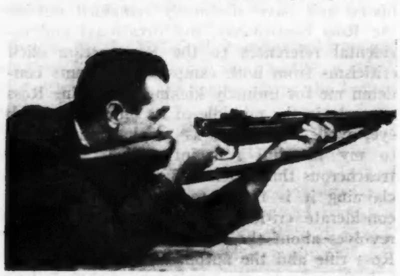
Mr. Cox seems genuinely interested in learning the facts about Ross accidents and says he has tried unsuccessfully for twenty-two years to unscramble the causes of these "alleged" injuries for a true analysis. His theory is that the absence of injury to the shooting hand by the Ross bolt handle indicates the bolt is not blown back while the hand grips the stock. Note the relative position of hand and handle in the photograph. The obvious assumption that follows this reasoning is that the removed hand would be grasping the handle in the act of prematurely extracting the live cartridge from the chamber following a hangfire. Thus the victim himself would be saving his hand from injury while inadvertently giving the bolt an assist into his face when the load finally ignited after the appreciable delay. He has an interesting point there, and I'll admit his reasoning has some logic. At least, hangfires, resulting from damaged primers or deteriorated powder, are not uncommon in old Ross ammunition.

On the other hand, such well-qualified opponents as Ross engineers and Ross demonstrators have told me that the Ross bolt can blow back even when it is properly assembled and locked and that there have been far more accidents of this kind than have ever been brought to light. Because of their direct connection with the arms and ammunition industry these informants will not let me disclose their identities. They admit that the normal representative samples of any Ross model will not do this, but insist that others do have abnormally fitting locking members that will become so disengaged under certain abnormal conditions. This then would be another legitimate reason for suspicion until the individual rifle of this make has proved itself above suspicion. I remember one of Colonel Whelen's arguments was that the degree of pitch of the Ross locking threads was but slightly greater than that of an automatic action designed to disengage and open at every shot. This pertinent opinion might possibly be significant, although I am not ready to say definitely that it is. One thing is certain, never questioned as far as I know, and that is the adequate strength of the Ross receiver and bolt in any model or caliber. My own never gave any trouble, and I considered it foolproof, as it would not accept its bolt when improperly assembled. It was the military model with solid bolt lugs and reamed out chamber, as sold by the D.C.M. to NRA members after the other World War. It was .303 British caliber until fired, when the case became a double-shoulder affair, and I reloaded them thus without resizing.

The best and most complete dope on all the different Ross models I have seen came from C. C. Meredith who now gives us the benefit of thirty years of research. See article in last issue (November, 1944).



Ross Bolt with head slipped back on body. This bolt was blown out of receiver and the shooter was seriously injured



Note that bolt handle of Ross Rifle is below base of thumb in the firing position and bolt could not be blown out without injuring thumb which rarely happens

Because of their significance I am quoting excerpts from the statements of one of my confidential advisers on the Ross rifles:

"I was an armorer overseas in the last war and handled Ross rifles as well as shot them, winning my place on our teams, and can further substantiate as facts any statements I make about Ross arms.

"Over the past twenty-five years, I've had dozens of letters from people regarding Ross rifles, have given evidence in court actions and military inquiries, have seen several who were killed by Ross rifles, and know many more who have been seriously injured and disfigured by them, nearly seventy instances, I believe (in the absence of my records), of injuries and deaths. So, without posing as knowing all about Ross rifles, I feel I am at least qualified to pass accurate opinions.

Although the Princess Patricia Canadian Light Infantry wisely refused to be armed with the Ross but insisted on the S.M.L.E., the rifle used by the Canadians overseas, until later replaced by the S.M.L.E., was the Mark III Ross (model '10 action) and incidentally the model which has been responsible for the most deaths and injuries from bolts blowing out. This rifle had threaded lugs on the bolt head exactly the same as the Sporting Model 1910 and supplied for .303 British and .280 Ross (also, I believe, a few were made for the .30-40 and .35 Winchester). In 1916 the Canadians overseas were rearmed with the S.M.L.E., and Ross discontinued business in 1918.

"The .280 Ross rifles had threaded lugs before the Model '10 appeared, but the military models for the .303 British were all solid lugs up to the Mark III or Model '10. So you have at least two models of .280 Ross with threaded lugs, but only one I know of for the .303 British, of which many thousands were made previous to and during the last war.

"Incidentally, I believe the Mark III Ross was the first military arm to be issued with a peep sight situated as it should be. There was no open sight on the barrel at all. In my personal opinion, the Model '10 sporters had the best designed and best fitting stocks for an average person of any commercial arms, I am aware of, anywhere. No doubt Sir Charles Ross was nearly a quarter of a century ahead of his time in ballistic problems. Unfortunately, he got the straight-pull idea (from India, I understand) and would not give it up. They made straight-pull .22 rifles as well."

From W. L. Hall, of Maplewood, N. J., we have some technical information on the Ross barrel thread. He wrote as follows, about removing his barrel from the Ross receiver: "I was surprised on loosening up a setscrew on the underneath of the receiver to find that the barrel was very loose. The pitch of the thread is three to the inch, lefthand. The diameter is 1-1/16 and the depth of thread, .083 inch. It is a buttress thread flat on the bottom, straight in front, and a 45-degree buttress in back. The total bottom diameter is .897 inch, the thread having ⅛-inch lands and grooves. The setscrew, under the receiver on the left side, butts tight against a recess cut into the thread on the barrel, locking the latter. In my opinion, the whole arrangement is very poor. The wide grooves leave only two full threads in the ¾-inch length, and the 1⅛-inch cylinder shank leaves a shoulder of only 1/32 inch for the receiver." (True of the takedown only.)

THE .218 MASHBURN BEE

Our Winchester bolt action, barreled for the .218 Bee at the factory, was converted to the Mashburn Bee by the advertiser of that cartridge. On it we used a 10-X Litschert scope. The factory 46-grain load with open-point bullets gave about normal results. There were five shots in less than 4 inches at 200 yards, and five in 1.50 inches at 100 yards, with four of these in half that spread. With the impact an inch high at 100 yards, it was 3.30 inches low at 200 yards.

With our handloads the 200-yard groups were smaller. The 45-grain Hornady had six out of seven shots in 2.90 inches with 14 grains of No. 4227, and the 40-grain Hornady had its five shots in 3.34 inches with 15 grains of No. 4227. Both of these showed a flatter 200-yard trajectory than the factory load, the 45-grain landing only 2.90 inches low and the 40-grain 2.44 inches below aim, over that distance, based on the same 100-yard impact. Many lots of homemade bullets were sent in for test and practically all were accompanied with the maker's claim of fine quality and accuracy. These were handloaded ahead of 14.0 grains No. 4227 and fired by lot against the factory load, at 100 yards, in 10-shot groups. The best one was the Kingery 45-grain made of brass fired cases. The group made by this bullet was 1.48 inches, with nine in 1.15 inches.

None of the others equalled the factory load, which put its ten shots in 1.20 inches. Another test was made at 200 yards with a case full of No. 4198 behind each bullet. Our experimental bullet (not the best one) put four in 2.22 inches, and Bossemeyer bullets were next, with four in 3.28 inches. Another lot of the same make put all five in 3.85 inches. In this test of select bullets the Kingery was last, with four in 4.00 inches. Most of our regular handloads do better than this in the Mashburn Bee. With the same load of powder, the 55-grain Sisk-Niedner put five in 3.23 inches; the 50-grain Lovell, five in 2.88 inches, and four in 2.20 inches; and the 47-grain 8-S put ten in 1.92 inches, with nine in 1.35 inches over the same range, of 200 yards. This bullet did fairly well when using 16 grains of No. 4227, with five in 3.52 inches and four in 2.32 inches.

The Sisk 50-grain and 55-grain bullets were tried for relative drop, over 300 yards, with the case full of No. 4198. The former indicated 24.52 inches and the latter 22.91 inches which agree with our average figures on these bullets in the 2R Lovell. With the impacts an inch high at 100 yards, they were 2.36 inches low for the 50-grain and 2.83 inches below aim for the 55-grain bullet at 200 yards, and 14.39 and 16.35 inches low, respectively, over 300 yards. The 5-shot groups over the three ranges were 0.92, 3.70, and 2.58 inches for the 50-grain bullet, and for the 55-grain, 1.29, 3.28, and 4.68 inches, respectively, for 100, 200, and 300 yards.

Even after three reloadings with heavy charges there was no sticking of cases in the chamber. The only bother we had was with cracked necks and shoulders in firing factory ammunition in the Mashburn chamber. Before loading fired .218 Bee cases for reforming, we annealed their necks by dipping them in a pot of molten lead. First, they are dipped in a thin gun oil, or cleaning solvent, to help free the lead. Each lead alloy has its own melting temperature, and this provides the heat control. Care must be used in annealing rimless cases so the shoulder will not be softened. For a low temperature of 750 degrees F. only the neck can be dipped for not more than five to ten seconds. At higher alloy temperatures, up to 1100 degrees F., only half the length of the neck may be safely dipped and in but half the time, or three to five seconds only. This annealing is not as critical and dangerous with rimmed cases, because their shoulders do not serve as the head-space stop in the chamber, and it is easily and simply done with both the Mashburn Bee and the K-Lovell cases, fortunately, as both need annealing to avoid cracking in reforming.

R.C.B.S. BULLETS

Fred Huntington now has his R.C.B.S. equipment well distributed about the country, and many of our readers are making bullets from fired rim-fire cases with this equipment on their Pacific Reloaders. My own efforts have been rewarded by a minute-of-angle accuracy up to 200 yards, with my best bullets, since my last report several months back. I am confident this is the ultimate possibility and as good as they can be made from fired cases. Consequently, I have become interested in trying something new in this line of homemade bullets.

We have read praises of the R.C.B.S. bullets turned out by Waldemar Doering out in the salubrious climate of New Mexico. We do not have that kind of climate, but we do have the same kind of Huntington equipment Waldemar uses, and believe we can copy his good 60-grain pellet; maybe even emulate his success with it in suitable .22 caliber varmint rifles. We believe in heavy bullets for long-range field work, and we pricked up our ears when we first heard about his good heavyweight. When I wrote him he told me he was using my own methods as published in the Dope Bag, but he took the slap out of this evasion by sending a few samples. He melts in his lead cores, which includes annealing automatically, and uses graphite for a black finish and I think this lubricant accounts for his long uncompressed jackets. Since reporting last I tried colloidal graphite and gave it up on account of its attraction for grit which resulted in scoring my .22 hulls. Soap and dry graphite were free of this curse that is common to oil and grease, and gave me no trouble except an added chore but without apparent benefit. However, this guy Doering has whetted my interest in trying powdered graphite during swaging, or for every die operation following final annealing.

Doering's 60-grain bullets came flat base and cavity base. The latter was the shape I adopted and promoted in my .25 caliber experiments as reported in THE AMERICAN RIFLEMAN of December, 1942. It was copied by Wotkyns who got Huntington to include this cavity base among his standard base-forming plungers (pointed punches of a 45-degree angle). As before, in all equivalent bullets, we noted that Doering's cavity base printed from ⅝ to ¾ minute of angle higher than his flat base of the same weight with the same powder load.

In my Gebby Varminter we used 39 grains of No. 4350 and Western cases. The cavity base put four shots in 3.58 inches at 200 yards, and the flat base, all five in 3.73 inches. In Barr's .22-250 Lovell, 39.5 grains and Remington cases were used. Both the chamber and the grooves are oversize, and this Lovell handles heavy bullets of .224-inch diameter far better than my Varminter. The Doering 60-grain proved to be no exception, as the cavity base went into 3.62 inches with four in 2.22 inches, and the flat base made 2.32 inches with four in 1.38 inches at 200 yards. A 10-X target scope was used on each rifle, by the same shooter, in a light variable 9 o'clock wind. It is an accurate bullet. Without the fliers it averaged under a minute-of-angle spread in two representative varmint rifles.

For other R.C.B.S. bullets sent in for test the score is not as good, except in the K-Hornet fired at 100 yards with No. 4227 loads in 10-shot groups. They are coded by a figure for weight and the makers' initials. The 45-K made 2.05 and 2.74 inches. The 45-EC made 3.63 inches, and the 50-H made 2.23 inches. With the same powder in the Mashburn Bee over the same range, others were tried in 10-shot strings. The 45-L made 3.02 inches. The 45-K made 1.48 inches. The 42½-MH made 2.47 inches. The 49-N were all culls, but they made 3.52 inches. This one, and the other two with the poorer bullets, had eight shots in 1.68 to 1.72 inches. In the same rifle and with the cases filled with No. 4198, some of these bullets were tried at 200 yards in 5-shot groups. The 45-K made 6.15 inches. The 54-B made 5.68 inches. The 49-B made 3.85 inches. The 49-N made 4.42 and 4.14 inches, but without fliers its four shots (2.22 inches) spread an inch less than the normal group of any of the others.

The .220-30 was tried with the case full of No. 3031 and these bullets. The 49-B made a 10-shot group of 4.28 inches at 200 yards, and the 54-B made 4.83 inches. The 49-N made a 5-shot group of 2.83 inches and at 100 yards, one of 1.55 inches. These are merely indicative results. In another .220-30 test of these bullets at 200 yards we got four of the 49-B in 2.54 inches and five in 3.68 inches, while the 49-N put four in 2.28 inches and five in 4.14 inches. This latter was not our best lot but it put five more in only 2.18 inches. Our best lot, as we like to make them, put its five in only 1.80 inches at 200 yards.

The total average for all the homemade bullets above was 4.16 inches per group for fourteen groups fired at 200 yards, including all fliers, 80 per cent of all shots fired going into 2.70 inches per group. The better ones submitted for test averaged 4.92 inches per group, with 80 per cent in 3.20 inches. Our own make, including culls, averaged 3.74 inches per group, with 80 per cent in 2.19 inches. At 100 yards, the total average was 2.52 inches per group, with 80 per cent in 1.65 inches per, for nine groups, our own agreeing with 2.54 and 1.45 inches, respectively.

TRADE DOPE

Wildcat Cartridge Dealers. In the latest list (four mimeographed pages) of Herbert R. Longo of New York City, I was interested to note a number of wildcat cartridges as well as some of the old Sharps type. J. W. Murrow, of Hudsonville, Mich., announces his Murrow Cartridge Company as ready for business with stocks of cartridges, in lots of 100 for dealers and collectors, as well as wildcats and reloads. He also plans converting .32 caliber revolvers to his .30 Murrow Greased Lightning load based on the .35 Self Loading case. The name is horribly frightening in itself, but we have no further details.

* * *

F. Theodore Dexter, of Topeka, Kansas, has some unusual items in his second October list of rare arms (ten mimeographed pages) including handguns, shoulder arms, and swords, some of which might interest collectors. He is one of the better known dealers in this field.

* * *

Vernon D. Speer, who makes the Hornady-Speer bullets from fired .22 cases, has moved to 1522 G Street, Lewiston, Idaho, and is better equipped for improved service, according to his announcement.

* * *

Victorit Company, 186 William Street, New York City, has a rust remover said to work on a new scientific principle and said to be recommended by gunsmiths who have tried it. Simple immersion, of rusted barrels or parts, in the liquid is the only requirement. Our preliminary test, on small bench parts, seems to bear out these claims, and it may be worthy of trial in gallon lots. Happily, it does not seem to affect old blueing, but only rust.

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. Transactions Based on Good Faith: ARMS CHEST transactions are based on good faith and mutual satisfaction. Deliberate misrepresentation, disregard of usual business ethics or the attempt to circumvent these general requirements, when brought to our attention, will result in refusal of further advertising and might result in disbarment from the NRA in the case of members.

2. All Orders Subject to These Conditions: WE reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

3. Who May Advertise: The ARMS CHEST is an *open* market trading post. Any individual or firm whose advertisement and methods of doing business meet our requirements may advertise their goods or services.

4. Rates: All classified advertisements must be accompanied by remittance. The rate is 10 cents per word, including name and address—minimum charge $1.50.

5. How to Count Numerals, Etc.: Groups of figures are counted as one word (examples: .30-30, 250-3000, $150.00, $1.50). Abbreviations consisting of initials or single characters likewise are counted as one word (example: W. H. Smith; H.B., meaning heavy barrel; HP., meaning highpower). Hyphenated words are counted as two words (examples: 20-gauge, pearl-handled, no-slip).

6. "For Sale" Ads Must State Price: A specific price must be stated on all FOR SALE ads—exception: a phrase such as "write for catalog" or "details on request" may be used when listing quantities of similar merchandise or real estate.

7. Firearms for Sale or Trade Must Be Defined: The *condition* of every gun (including essential parts) advertised for sale or trade *must* be specified according to *NRA standards*, as follows: PERFECT—meaning factory condition; EXCELLENT—meaning new condition, implying negligible amount of use; VERY GOOD—meaning practically new condition, implying little use, with no appreciable bore wear and only minor surface scratches or wear; GOOD—meaning moderate use with some finish worn off, only moderate bore wear, with no pits and nothing worse than a little roughness in the bore; FAIR—meaning no parts missing necessary to use of gun, reasonable wear inside, and out, nothing worse than minor pits in steel or stock, gun sufficiently accurate for hunting; POOR—meaning marred appearance and pitted or badly worn bore.

8. Non-Specific Phrases Barred: Phrases such as "highest" or "top prices paid", as well as any other so-called "auction-type" phrases are not acceptable. The terms "fair price paid" or "state price wanted" may be used.

9. Blind Ads Not Acceptable: Box number or blind ads will not be accepted. Give your complete name and address, to insure prompt delivery of all mail or telegraph replies.

10. Requesting Privilege of Examination: Purchasers desirous of examining merchandise before acceptance should request shipment by express, C.O.D. with examination privileges. This procedure permits the purchaser to inspect the merchandise *in local express office* and authorizes the express company to return unsatisfactory merchandise at shipper's expense.

11. OPA Ceiling Prices: An agency of the Federal government has legally fixed the prices of various commodities, including individual sales of used firearms and ammunition. Attempts to evade ceiling prices are violations of Federal statutes. It is physically impossible for us to check advertised prices against legal ceiling prices. This is the responsibility of the advertiser, and advertisements offering to buy or sell merchandise at higher than legal prices will, when called to our attention, subject the advertiser to the penalties mentioned in paragraph 1.

12. Federal Explosives Act Defined: Under the Federal Explosives Act of 1941 all buyers, sellers, and possessors of gunpowder (not complete cartridges) must be licensed. Explosives licenses are usually obtainable from county court clerks. Purchasers must submit such license or a certified copy thereof to the seller at time of sale.

13. "Outlawed" Firearms Defined: The sale of certain firearms is outlawed by Federal law unless handled by a Federally licensed dealer. These include machines or submachine guns; sawed-off rifles and shotguns with barrels of 18 inches or less, and Mauser and Luger auto pistols *with holster stocks.*

14. Responsibility for Illegible Copy: Type or print advertisements plainly, as we can not be responsible for errors due to illegible writing. Spell out all descriptive words; avoid abbreviations.

15. Closing Date: The closing date for all advertisements is the 5th of the month preceding month of issue. However, the *volume* of advertising we can publish monthly is limited and the quota is usually filled prior to the closing date. Ads will be accepted in the order received.

FOR SALE

FOR SALE — GIANT CHINCHILLA RABBITS. Valuable fur. Delicious meat. Easily raised. Pleasant pastime. Tremendous demand. Small investment. Large profit. Willow Farm, R82, Sellersville, Pa. tf

HUNTERS DREAM — SUPER ACCURATE Sporter; 7mm Sukalle-Mauser, double set triggers, engraved guard and plate, white line Monte Carlo stock with recoil pad and buffalo horn tip, low mounted 3X Goertz Certar, rifle near new and perfect, $265.00. Components. WANT—Model 70 action. Clyde Day, Midway City, California.

FOR SALE—52 SPORTER, ZEISS ZIELVER, LEE Dot, Stith Mounts, good, $260.00. Target Model 70 Swift, 6X Unertl, Lyman ¼ min. mounts, very good, $200. Colt Detective Special, excellent, $60.00. 52 Standard, 17A 48 receiver, very good, $55.00. S. W. K.-22, Gold Bead, adapter, ammunition, very good, $65.00. Stamp for details. Herbert Tresslar, 1111 South Perry, Montgomery, Alabama.

TRADE GUNS AND AMMUNITION OR GET good cash! We pay more, you buy for less, because we're America's Biggest Traders! Most complete selection of new and used Guns from $5 to the finest. We also buy, sell, trade ammunition, Reels, Rods, Outboards, Binoculars, etc. Describe your merchandise fully. Free "Guaranteed Bargain Catalog" featuring thousands of "hard-to-get" items; send 25¢ (refunded with first order). Klein's Sporting Goods, 503TE South Halsted, Chicago 7.

FOR SALE—12-GAUGE DOUBLE MUZZLE LOADing No. 3471, very good by J. Purdey and Sons, London. Have letter to prove original sale in 1841 by Purdey. Details on request. Springfield .30-'06 Star Gauge No. 1247190, Lyman 48-C, Bishop stock, ramp sight, sling, very good, shot 20 cartridges for sighting, 40 cartridges, $150.00. Money Order. C. M. Jerdeman, Reedsburg, Wisconsin.

DUPONT AND HERCULES POWDERS, AS I have accepted a position in the west. Alvin Miller, Ellendale, North Dakota, has taken over my business here. Arthur E. Anderson, Fullerton, North Dakota.

FOR SALE — EXCELLENT WINCHESTER 52 H. B. #54849B Lyman 48 extension rear 17A front. Rigid leather covered felt lined case, 500 rounds Kleanbore L. R. glove and accessories, $135.00. R. Boothby, Island Park, New York.

LARGE STOCK OF AMERICAN & EUROPEAN Arms. Send twenty-five cents for our eleventh catalog featuring three New England collections which have just come in. We buy whole collections or single pieces, fair prices paid. Kimball Arms Company, Woburn, Mass. tf.

FOR SALE—CUSTOM LOADING. 20 CALIBERS of rifle and pistol, prices reasonable, also factory ammo. Ralph Williams, 34 Pomeroy Avenue, Pittsfield, Mass. Licensed Manufacturer #2789.

FOR SALE—COLT, OFFICERS' MODEL, HEAVY barrel, still in factory box, never fired, $85.00 cash. Bill Charlton, 1334 Cole Place, Hollywood, California.

FOR SALE—PERFECT COLT OFFICERS' MODEL 22 in factory box, $75.00. Money order only. Austin E. Elrod, Box 424, Anderson, S. C.

FOR SALE—22 REMINGTON SCOREMASTER, perfect, $25.00. 22 Hi-Standard Model D, thumbrest grips, excellent to perfect, two holsters, $75.00. Winchester 12—12—30 full-barrel excellent, bluing worn some with 75 shells, $85.00. Eldred Camp, 1101 E. 4th Street, Superior, Wisconsin.

FOR SALE—6 SCOPE MOUNTS TO FIT M70 for Weaver scopes similar to Redfield, $8.00 each 257 Bull Gun Mauser double set trigger custom built stock Vaver sights cases, bullet primers. Low special instant detachable scope mount for Weaver all excellent, $145.00. Stamp for reply. Arthur Lamoureaux, 232 Windsor Ave., Haddonfield, New Jersey.

FOR SALE—250-3000 SAVAGE 99G TAKEDOWN, excellent, shells, case, $72.50. Remington Springfield #3,902,339 as issued, receiver peep, barrel and action excellent, stock good, $86.50. C. Gregory, 145 Jericho Tpke., Floral Park, New York.

FOR SALE—RELOADING SUPPLIES AND HANDloads: #57 shotgun primers for all shotgun shells, $7.50 per 1000. Percussion caps, #11 $2.50 per 1000. Remington primers for .38 Special cartridges, size 1½, $5.00 per 1000. Jointed metal cleaning rods, with removable tips, cal. 22 to 50, $1.50 each. 10 ga. primed shotgun shell cases, $2.50 per 100. No C.O.D. shipments, forward money order for goods wanted. Public Sport Shops, R-75, 13 S. 16th St., Phila., Penna.

IF YOUR MAGAZINE IS LATE

Please bear with us if your copy of THE RIFLEMAN arrives later than you have been accustomed to receiving it. In normal times the magazine is mailed on a schedule providing for delivery during the first week of the month of issue. We still mail according to a plan designed to insure simultaneous deliveries throughout the United States; but the wartime strain on publishing, postal, and transportation facilities makes it impossible to guarantee normal-uniform deliveries. Only a return to normal conditions can remedy this situation. Meantime, you have our assurance that when your copy arrives late, the same issue is probably being delivered late to all other subscribers. We ask that you wait until the 20th of the month before reporting non-receipt of the current issue.

FOR SALE—WINCHESTER 70, .300 MAGNUM, recoil pad, 57 peep sight, 2 boxes cartridges, excellent, $90.00. Colt Super .38 perfect box of cartridges, $55.00. Winchester 53, .25-20 staynless steel barrel, excellent, reloading tool, powder measure, bullet mould empties, $55.00 or sold separately. H. D. Decker, Plasterco, Virginia.

FOR SALE—32 COLT AUTOMATIC, PEARL grips, perfect, except slight holster scratches, $40.00. 32 Savage automatic, good, $20.00. Gundlagh U. S. Navy binoculars, 6x50, leather case, excellent, $50.00. 1500 clean .38 Special cases, $12.50. 3,000 small pistol primers, $25.00. 500, 8½ rifle primers, $5.00. Complete files of RIFLEMAN and NATIONAL GEOGRAPHIC. Write. Have some .22 ammunition. WANT latest 52 heavy barrel. Also .30-'06 rifle or action. B. G. Dwyer, 748 Chenango Street, Binghamton, New York.

FOR SALE—22 WOODSMAN 6", EXCELLENT in, very good out, holster, shells, $50.00. Also .45 automatic commercial, same as above, $60.00. Pvt. Jerome Begun, 39050770, Ward Upper East, Fitzsimmons General Hospital, Denver, Colorado. First money order.

FOR SALE—SPRINGFIELD SPORTER .30-'06. Star Grade, perfect condition, shot less than 50 times together with sling, cleaning rod and 485 Standard hand loaded target cartridges, $150.00. Send money order. Price F.O.B. Norristown, Penna. Leon Kohl, Norristown, Pa.

FOR SALE—S. A. 45 COLT 7½" BBL., SMOOTH bore, stamped "Bud"—ivory bead, ramp front, very good in, fair out, reblued barrel, mechanically very good. Write for details before remitting. WANT—50-70 Government Remington cases. R. L. Conklin, Deal, N. J.

FOR SALE—ARGUS MODEL A2F, CANDID CAMera, excellent $30.00. Colt .32 pocket Positive, excellent, ammo; $37.50. Remodeled Eddystone Enfield, 22 inch barrel, Stoeger handchecked stock, Weaver 29S scope, sling and swivels. 170 rounds F.A. ammunition, 37 soft-points, very good, $100.00. Robert L. Smith, 3 High Street, Wiscasset, Maine.

FOR SALE—ANTIQUE AND USED FIREARMS, swords, books. 6¢ in stamps for next two lists. Fred Braucher, 345 Lisbon St., Canfield, Ohio. 12-44

FOR SALE—ANTIQUE LONG GUNS FOR COLlectors and shooters. Military and sporting. Kentucky flint and percussion, Colt, Roper, Perry, many rarities. List 15¢. Wm. Locke, 3607 Ault Park Rd., Cincinnati 8, Ohio. 1-45

FOR SALE—SHOTGUN SHELLS: OUR 12-GAUGE 5 and 6 chill heavy reloads are again available. Limited Supply. Shells 10¢ each. OPA established ceiling. M.O. please. Jim Clark Sportingoods, 2029 West Fondulac Avenue, Milwaukee, Wisconsin. 12-44

FOR SALE—ADULT BOOKS FOR YOUR PERsonal Library. Illustrated sample and catalogs, 10¢. Alstone, 304, Lunenburg, Mass. tf

FOR SALE—REVOLVERS, MINERALS, STAMPS, coins, glass, Indian relics, catalogue 5¢, Cowboy Lemley, Las Cruces, New Mexico. tf

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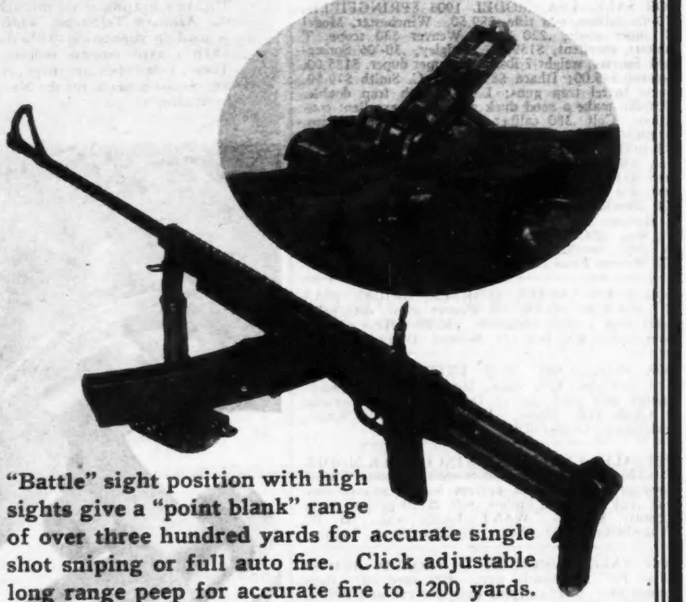

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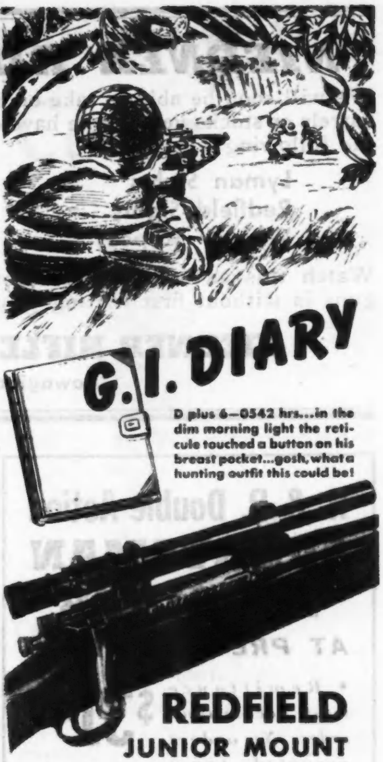

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FOR SALE—MODEL B HI-STANDARD 6¾" new condition, $50.00. 32 Smith & Wesson hand ejector 4¼" barrel, blue, new condition, $35.00. Match Target Woodsman, excellent, $65.00. Dan Ashbacher, Coffeyville, Kansas.

FOR SALE—COLT'S WOODSMAN, FAIR OUTside, excellent in, Heiser holster, 1000 Kleanbores $50.00. Winchester 54 Hornet, excellent in and highly accurate, good out, 10X Targetspot (less dust caps) two boxes Kleanbore 75 Sisk bullets, 100 empties, $140.00. Savage 219 Hornet with 329 Weaver scope no iron sights, excellent inside, 78 handloads, 75 empties, $37.00. Want—Winchester 8X scope. K. K. Knight, Quaker City, Ohio.

FOR SALE—6X30 LEMAIRE BINOCULARS LUger 7.65 Smith 12 BBL. Several pocket watches. Send stamp for list. McNeely, 5401 Winthrop, Indianapolis, Indiana.

FOR SALE — REMINGTON TOURNAMENT grade, Model 11, 12 gauge, 28" rib, full, good, $125.00, Remington Model 10, 30" full, good bore, poor out, $35.00, Colts 38 Special, D. A. Crome, 6", excellent, $50.00. Carlisle P. Robarts, 219 Shover St., Hope, Arkansas.

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FOR SALE—54 HORNET, LYMAN SCOPED, 280 shells, $125.00. Colt .22 Woodsman, Special grip, carton shells, $65.00. Model 12 Winchester, ribbed, 12 ga. fancy stock & Beavertail, 250 shells, $125.00. 200, 38 Special handloads, $7.50. Abercrombie Explorers 7½x7½ tent complete $60.00, all excellent. A. Julsrud, Red Wing, Minnesota.

FOR SALE—FOX 12 DOUBLE, EXCELLENT, $65.00. 1917 Colt revolver 45, good, $45.00. R. E. Hunt, 210 Druid Hill, Salisbury, Maryland.

FOR SALE—2R RELOADING TOOL $10.00, 25-20 SS cases, 6½ primers, Remington, Sisk. 41, 45, 50 grain bullets, powder 4198, 4227 all at $1.60. New Savage 19M, HB $40.00. J. Devon, St. Gerard Avenue, % Mullan, Cumberland, Maryland.

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FOR SALE—ONE 219 IMP. ZIPPER BARREL made by Ackley and put on a 30-40 repeater Krag action by Truley, has Weaver We scope on T mount, has sling, perfect inside, out good, and bond tool complete and a full length resizing die, and 300 bullets and 300 primers, 1 lb. of 4759 powder, 50 loaded shells, all for $140.00. R. W. Crumrine, Clay Center, Kansas.

FOR SALE— S&W .22 TARGET, COUNTER SUNK chambers, 6" barrel, perfect, 100 cartridges, $55.00. Colt Officers' model target .38 Special, 7½" barrel, excellent to perfect, box cartridges, $65.00. Colt 32 automatic, excellent, box cartridges, $40.00. Colt .38 automatic, service model, perfect, box cartridges, $60.00. Fleetwood electric shaver, excellent, $10.00. First money order takes choice. Clarence Uhl, R#1, Wooster, Ohio.

FOR SALE— M 620 STEVENS 12X28 MOD. INside excellent, outside v.g. to excellent, Mutton leg case, recoil pad, 50 shells, $60.00. Winchester M24 12x30 M&F, inside excellent, outside good $40.00. Will consider trades. A. V. Schweidler, Culver, Indiana.

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FOR SALE—LYMAN SUPER TARGETSPOT 10X $100.00. B&L 6S MM spotting scope 20½X, $100.00. Ithaca double 28 modified and improved cylinder, automatic ejectors single selective trigger, 10 boxes shells, $160.00, all excellent. C. B. Benson, Antioch, California.

FOR SALE—WINCHESTER 52, STANDARD BARrel, Redfield Globe front, sling, 10X coat size 40, Camp Perry cartridge box $60.00 very good plus out, excellent in. Johnson outboard motor, model LS38 used but 15 hours $85.00, excellent plus. Lyman 5A scope with Lyman mounts $30.00, perfect. L. S. Whitmore, Mendota, Illinois.

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FOR SALE—.30 CALIBER REMINGTON MODEL 8, excellent with ammunition and sheepskin case $90.00. Remington Model 11, 12 gauge, 28", full choke, outside excellent, inside pitted, $65.00. .45 Colt automatic, new barrel, arched housing, custom blued, $50.00. Chromium and Pearl .25 Colt automatic in small sheepskin lined walnut case, $40.00. Colt Bisley 7" barrel, .38 W.C.F. outside custom blued, inside fair, with cartridges, $35.00. S&W, 2" barrel, hammerless pocket models, .38 and .32 blue, very good to excellent, with cartridges, $35.00. S&W top break, hammer model, .32, blue, 3½" fair, $20.00. Colt new Army .38, custom blue, with cartridges, pitted, $25.00. Bureau Drawer Specials, Iver Johnson .32, hammerless, H&A 2" .22, fair, $6.00. G. B. Gaumer, 4028 Parrish, East Chicago, Indiana.

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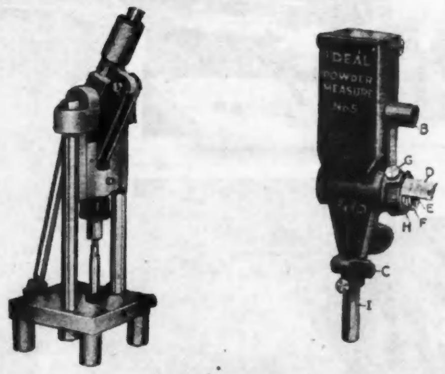

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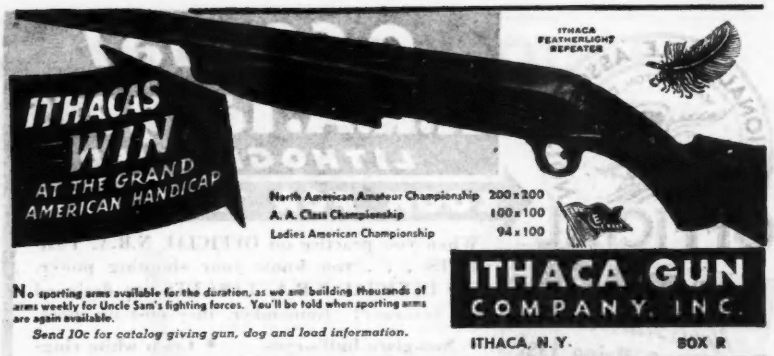

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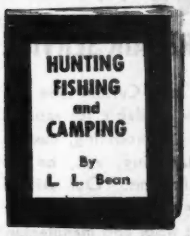

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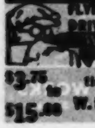

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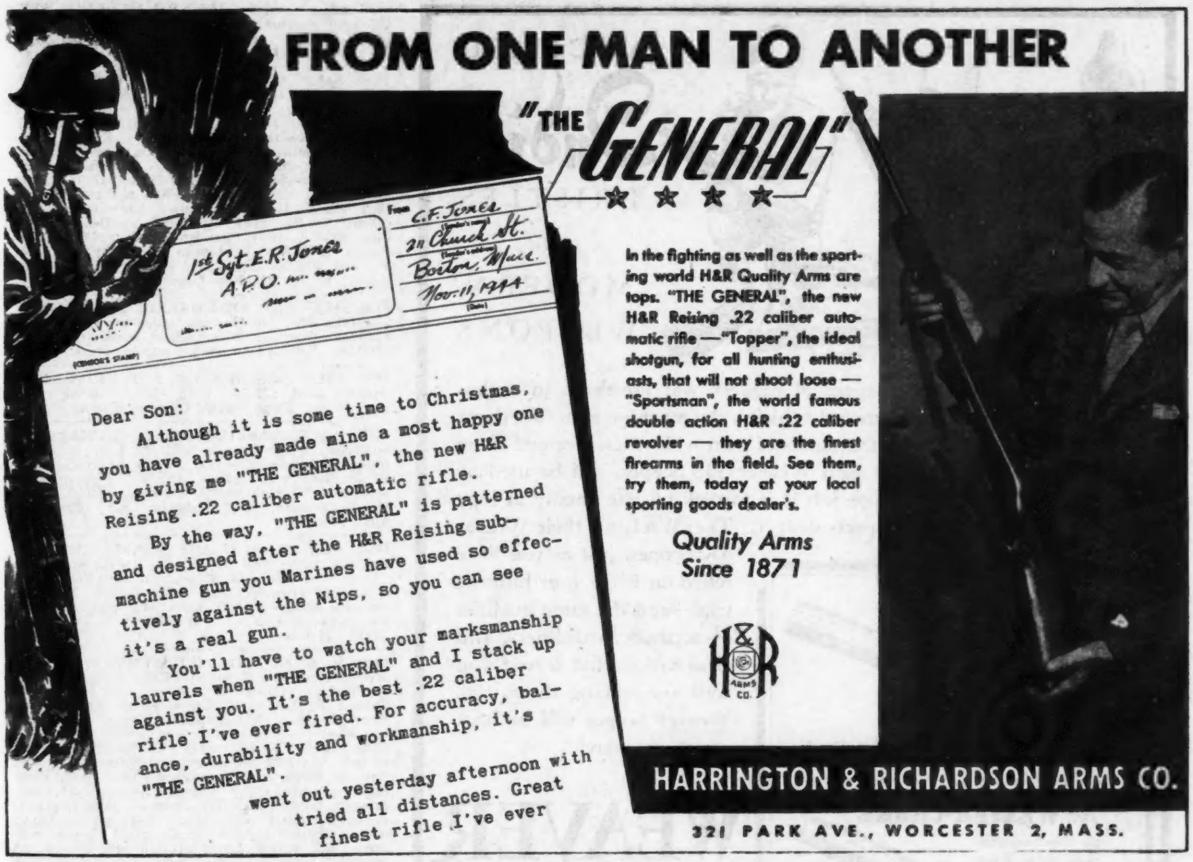

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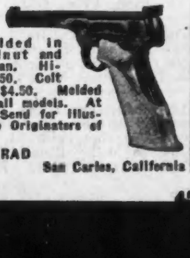

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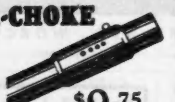

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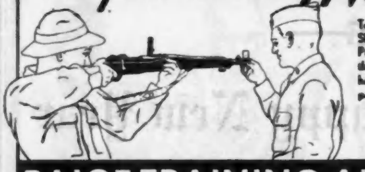

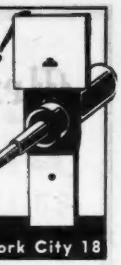

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FOR SALE—SAVAGE 99, 30-30, VERY GOOD, $50.00, Colt New Service, 38-40, like new, holster, 25 loads, $70.00. Exchange Improved Hornet, very good, accessories, no sights, for very good, 30-06. R. W. Winstead, Natchitoches, La.

FOR SALE—ISSUE SPRINGFIELD 30-06, SERIAL #1348206, excellent, $75.00, Colt 32-20 Police Positive Special, blued, 4" barrel, excellent, $45.00. Waldorph, Canaan, N. Y.

FOR SALE—REMINGTON 37, GARRISON TRIGger, inset cheekpiece stock, shortened adjustable extension, very good, with Mossberg scope and stand, $100.00. Argus 55mm. scope new, 20X and 26X eyepiece with case, $90.00. Byron Gildersleeve, 411 State, West Lafayette, Indiana.

FOR SALE—.45 COLT AUTOMATIC, GOOD, $42.50. T. H. Turner, Seaford, Delaware.

FOR SALE—.38 R.F. 100 ROUNDS, $7.00, REMington .38 C.F. 100 rounds, 300 empties, homemade loading outfit including six cavity mould, $25.00, .32 F.R. pearl, good to excellent, $10.00, Ideal #3, .45 Colt with sizer, $5.00, Meepos dies, 30-06, .38 Special, 25% off list, Corona portable, case, excellent, $25.00, Seneca view camera, leather covered, leather bellows, F6.3 Kodak anastigmat, four double plate holders, Photrix SS lightmeter perfect, extras, $80.00. Pa Callahan, 8206 De Garmo Roscoe, California.

FOR SALE—SPRINGFIELD SERVICE RIFLE. good to very good. $45.00, another, excellent, "C" stock. $55.00. John Gschwind, 4124 No. Leamington, Chicago, Illinois.

FOR SALE—SISK .22 WARTIME BULLETS IN stock, 42 and 54 grain .223" and .224", $2.60 per 100 prepaid. Dupont Nos. 4227, 4198, 4227, 4320, 4350, 3031, Hivel No. 2, 2400 Lightning, Sharpshooter, $1.60 lb. Nos. 4759, No. 6, Bullseye, Unique, Dupont bulk and MX shotgun smokeless, $1.00 per ½ lb. Send empty powder cans prepaid parcel post for all Hercules powders, which must be repacked from large kegs. Send copy of federal explosives license with order. Chilled shot, all sizes, $1.00 per 5 lb. bag. $4.50 per 25 lb. bag. Buckshot in sizes .25", .28", .30", .32", .34", .36", .38" and .44" $1.00 per 5 lb. bag. Leslie Lindahl, Cental City, Nebraska.

FOR SALE—12GA. REMINGTON M11 AUTOmatic, excellent, $85.00, 12ga. Savage automatic with Poly Choke, very good plus, $80.00. Examination privileges, R. Tetrault, Hopewell Junction, N. Y.

FOR SALE—.22 L.R. BALLARD RIFLE HEAVY bull gun barrel by Spangler, walnut Hi comb stock and forearm, Beavertail, sling, adjustable sling swivel on forend, wooden pistol grip made on lever, Marble-Goss micrometer rear sight, hooded front, weight 15 lbs. bore excellent, outside very good, action very good, $70.00. 790 #2 copper primers, $5.00. All F. O. B. Dr. Fred Cubbage, 1009 Jones Bldg., Corpus Christi, Texas.

PRICES OF GUNS AND ARTICLES LISTED IN my September Add page 42 now revised. Combinations including ammunition may be broken up at proportionate prices, range Master $85.00. 417½ $70.00. 513 T $45.00. 250 Magnum $195.00. 6.5 $150.00. 276 $195.00. 300 Savage $95.00. 30-40 $65.00. 300 Magnum $150.00. 35 Winchester $65.00. Both 375 Magnums $120.00 $110.00. 405 $65.00. M70 Hornet converted by G&H to 2R Lovell, sling, Lyman 6X scope fitted, 1000 Sisk bullets & primers, 145 new cases, perfect never fired, $225.00. 35 Newtons $4.00. Remington 8½&9½ primers $1.50 per hundred. Loading tools, Ideal No. 10, 6.5mm, neck die, shell expanding chamber, 266 plus, $10.00. Ideal No. 10, 300 Magnum, neck die, shell expanding chamber, 308 plug, $10.00. Wilson tools, Hornet shell holder $1.00. Primer pocket reamer $4.50. 30-06 case trimmer $7.50. Prices of miscellaneous items listed in previous ad revised proportionately. Write me your needs. C. E. Loomis, Wilson, N. Y.

FOR SALE—1890 WINCHESTER 22 W.R.F. Lyman sight, bore perfect, 350 cartridges, $25.00. John Colbert, East Chatham, N. Y.

FOR SALE—700-172 GR. F.M.T. 3½¢ EACH. 175-220 gr. S. P. bullets 30-06, 6¢ each. Schmitt tool M12 $34.50, others: Details receipt addressed. stamp envelope. F. F. Page, Naples, Idaho.

FOR SALE—L. C. SMITH SPECIALTY, 12 28". AE, single trigger, good, leather case, shells, $75.00. 30-40 Krag Sporter, VG, shells, $45.00. Winchester 90, .22 repeater, good, $15.00. Higgins, Pleasantville, N. Y.

FOR SALE—WINCHESTER 21, 20-28, #1 SKEET & mod. single selective trigger, selected stock, perfect in, excellent out, 100 shells, $110.00. Woodsman 6½" standard, perfect, 500 L.R. $47.50. 200 rounds F.A. 1938 N.M. $17.50. J. G. Hodge, 1044 Maryland Avenue, Schenectady, New York

FOR SALE—ONE 32 COLT POCKET MODEL Automatic, 30 rounds Copper tip, new condition, $49.00. J. C. Pike, 800-23rd St., West Palm Beach, Florida.

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FOR SALE—75¢ EACH. NEW TRIGGERS FOR Colt automatic pistols, 45 caliber, also some Enfield parts. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia, Penna.

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SELL OR TRADE — MILITARY ROSS '05 straight pull .303 British as issued $13.50, Felag binoculars 10 x 45 good but right eyepiece cracked no case, $55.00. Haenel Air Pistol good, .22 repeater $19.50. Want Model 57 Winchester or comparable .22 rifle. Sgt. S. Rabinowitz, Box 277, Homestead, Florida.

SELL OR TRADE—STEVENS 44½ ACTION tight bore, excellent $35.00, Marlin 93 32-40 bore very good, $35.00, Trade for Winchester 70 Hornet or .257 give difference. W. Halsall, 836 Elysian Fields, New Orleans, Louisiana.

SELL OR TRADE—ANTIQUE FIREARMS bought, sold, exchange. Stephen Van Rensselaer. Mt. Kemble Ave., Morristown, New Jersey. 2-45

FIREARMS BOUGHT, SOLD, EXCHANGED. Especially interested in all types Smith & Wesson revolvers and pistols, send ten cents in coin or stamps for complete list. H. L. Remmel, 1622 Center Street, Little Rock, Arkansas. tf

SELL OR TRADE—DIAMOND RING, WATCH, binocular, for similar goods or cash. Paul Schweer, Donnellson, Iowa. 4-45

SELL OR TRADE—.22 S&W PERFECT ORIGINAL box, extra front sight, $60.00 or trade for Woodsman like condition. .22 Savage N.P. takedown, good out, very good in, mounted with A5 scope, excellent, box lubaloy 54 primed empty used, 100 #6½ primers, 300, #228367 bullets. #3 Ideal tool with muzzle sizer, extra Lyman #30½. Auxiliary cartridge $85.00. Micrometer scope side mounts $5.00. J. G. Jewett, North Attleboro, Mass.

SELL OR TRADE—EXCELLENT WINCHESTER 63, Lyman peep, $60.00. Want .30-06 Pacific or Jordan tool and components and very good .45 S.A.A. Clay Keene, Wheat Ridge, Colorado.

SELL OR TRADE—BROWNING SWEET SIXteen, sheeplined case, two boxes shells, $140.00 excellent. Melody C gold plated saxaphone cost $250.00 sell $100.00 or trade for good gun. A. C. Hartman, 117 So. Chicago Avenue, Freeport, Illinois.

SELL OR TRADE—S&W 32-20, 5" BARREL, square butt, 30 rounds, v. g. $40.00. S&W 32, 4" barrel, v.g. 25 rounds, $30.00. Want 52 Winchester Sporter. Frank L. Felts, 315 So. Park Ave., Herrin, Illinois.

SELL OR TRADE—ANTIQUE AND OBSOLETE firearms for collectors bought and sold, always a fine stock on hand. "The House of Guns", 97 Liberty Avenue, Belleville, 9, N. J. 11-45

U. S. SPRINGFIELD .30-'06 #1,303,919 "C" stock, honed action, excellent, with 200 rounds F. A. '40 ammunition, $100.00. Ithaca 12, #2 grade, 28", excellent with 5 boxes shells, $75.00. Savage 19 N.R.A. micrometer rear, 17-A front, blocks, adjustable front swivel, trigger shoe, 1,000 rounds Kleanbore, excellent, $55.00. Sedgley .30-'06 Sporter, 48 rear, gold post front, scope blocks, excellent, with 4 boxes ammunition, $125.00. Winchester 70, .257 Roberts, standard, excellent, $100.00. Lyman scope, 15 x 1½", Lee Dot, excellent, $100.00. All f.o.b. WANT—Custom .257, cash, or will trade any of the above. M. J. Lowen, 930 Central Park Avenue, Yonkers, New York.

SELL OR TRADE—CENTRAL ARMS COMPANY 12-gauge single shot hammer gun, 30" bbl., full, recoil pad, inside excellent, 2 or 3 scratches on forearm, bluing very good, $10.00. Winchester '97, 12-gauge, 30" bbl., modified, bluing very poor, bbl. inside very good, receiver fair, a little loose, $20.00. Colt Automatic, .32 caliber, bluing fair, action OK, bbl. inside a bit rough in grooves, $22.00. H&R .22 caliber revolver, Trapper model, condition fair, bluing good, $7.00. Genuine C.G. Conn Tenor Saxaphone, in A-1 condition except for silver plating worn about 4 spots on horn. Just been overhauled, checked and adjusted, fitted with new reed. Complete with case, neck strap and hook, and music support. Worth $200.00, WANT—$150.00 cash or trade. WANT—Model 70 Hornet in excellent condition with 330 scope B mounts, sling and swivels, handloading tools in good condition plus Hornet components. What have you? R. C. Goodell, 412 South Lott Blvd., Gibson City, Illinois.

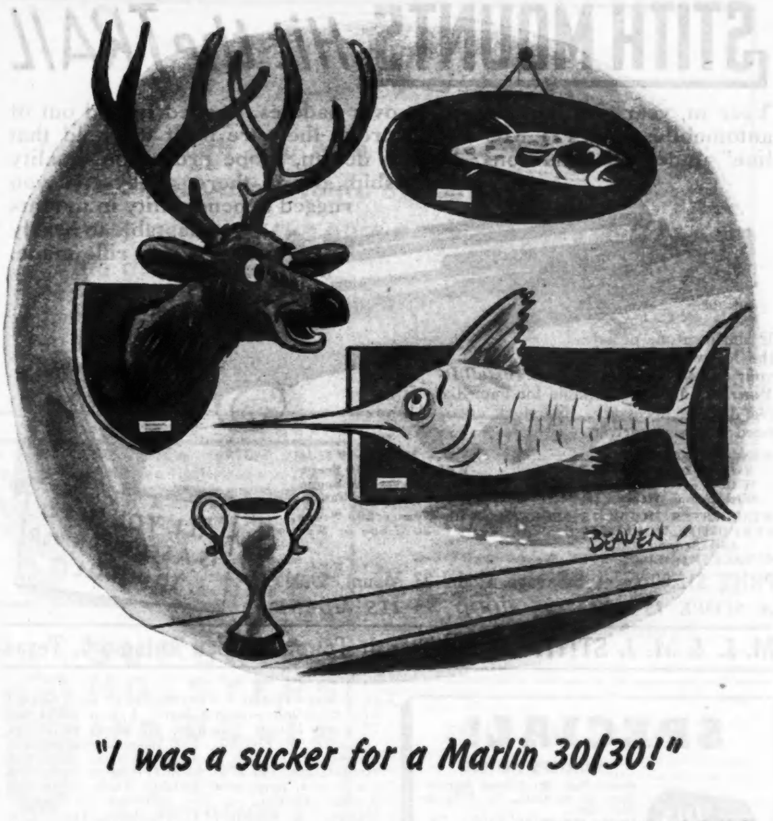
SELL—MODEL 70 HORNET, NEW CONDITION. fired 50 times, latest 29S in Stith mount, sling, tool, mould, 200 factory loads, 50 handloads, 150 Loverin bullets, 200 primers, $150.00. S&W, M&P .38 Sp., blue 6" barrel, excellent, $45.00. S&W Olympic 10" barrel, Houchins Free Pistol style grips, and Roper grips, excellent, $55.00. Charles Newton loading tool .30-'06 complete, $10.00. Thalhammer scope stand as new, $8.00. Wilson case trimmer .38 Special, $7.50. WILL TRADE at list for Schmitt 24 tool and/or dies. "Muzzle Blasts" or "Bullets Flight." William Marble, 11 Migvon Road, Conshohocken, Penna.

SELL—NEW H&R SPORTSMAN, $32.00 WITH ammunition, New Reising automatic .22 caliber, $68.00, with ammunition. Write us for trade in. We will do business. F. Emerson, 133 Wallace Avenue, Auburn, Mass.

SELL OR TRADE—CHRONOGRAPH WRIST watch, excellent, start, stop, reset levers, cost $110.00. Want long barrel .357 S&W, holster, ammunition. Malcolm L. Scott, Box A-60, Bomb H.Q. C.A.A.F., Carlsbad, New Mexico.

SELL OR TRADE—WINCHESTER 52B SPORTER, excellent. $115.00. Some trades considered. Leonard Stretz, 6130 South Benton, Kansas City, Missouri.

SELL OR TRADE—BEAUTIFUL ITHACA #7 grade Single Trap gun, number 278104, just completely reconditioned inside and out at Ithaca Factory Gold trigger and inlays, extra fine wood. New, price $385.00. Also sole leather case worth $30.00. Both for bargain price of $225.00 OR TRADE for 12 or 16-gauge double or pump of equal grade. A. Morris, 3802 Edenhurst Avenue, Los Angeles, Calif.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SELL OR TRADE—45 COLT AUTOMATIC, 100 cartridges, very good, $55.00. Elto Pal outboard 1-1, very good, $45.00. WANT—2½ Johnson Outboard, high grade 9 x 12 tent. Must be very good, cash adjustment. Claude G. Crarup, Oxford, New Jersey.

SELL—PERFECT S&W KIT GUN, $70.00 OR WANT—double shotgun. Erving Saal, 1701 Carleton St., Berkeley 3, Calif.

SELL OR TRADE—FINE POINTER WELL started, good looker, hunts nicely, first $75.00 or gun. Harold Hemmelgarn, R.R.1, Box 105, Maria Stein, Ohio.

SELL—COLT P.P.S. .38 SPECIAL, 5" BLUE, very good to excellent, $37.50. 2R Lovell, excellent, H.S. action, beautifully scoped stocked, loads, tools, cases, $65.00. OR TRADE for 52 Sporter 8X scope and primers if wanted. TRADE—.32-20 S.A. A., good, for 4", .38 Special or .32-20 in lighter gun. WANT—44½ C.F. action. C. H. Lark, 2839 Glendale, Jennings, Missouri.

SELL OR TRADE—SAVAGE MODEL 19, NRA .22 Target Rifle, perfect, micrometer sights and sling, $60.00. WANT—Winchester 52 Sporter or Winchester 75 Sporter. W. H. Mann, Jr., FBI Academy, Quantico, Va.

SELL—REMINGTON 12-GAUGE AUTOMATIC full, very good to excellent, $75.00. Match Target Woodsman, very good to excellent. WILL TRADE for 4 1/12 Woodsman and $25.00. N. S. McGill, 209 State St., Binghamton, New York.

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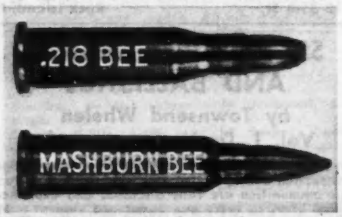

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FOR RENT—MOULDS, DIES, IDEAL LUBRICATOR dies, etc., sell or trade, some Ideal muzzle sizers, chambers and case sizing dies, tools. H. Romness, Zumbrota, Minnesota.

SELL OR TRADE—NAVY 2 MAN RUBBER boat, complete, used once, $50.00, about 80 copies Rifleman, 1933-43. Trade above for 12 gauge, Hornet, 30-06 tools, ammunition, guns. H. C. Robinson, Woodworth, Louisiana.

FOR SALE—SCHMITT TOOL MOD. 12 AND full length resizing press mod. 20 for 220 Swift with special neck reamer, complete and perfect, $50.00. Will trade on the following; 8 cartons late issue .45 auto. 6 boxes 9mm Mauser 280 gr. 1000, #120 primers; 25 new, 75 used Swift cases, bullets, 1000 .224" 48 to 63 gr. 200 25 caliber 87, 100 gr. 800 35 caliber, 150, 220, 275 gr. 200 38-55 255 gr. 100 44-40 200 gr. Powder: No. 5, 3064, 4320, 4350, 3031. Full length Ideal resizing die 30-06. B. M. Bullet Seater 220 Swift. Jos. Burkhart, Melrose, Minnesota.

SELL OR TRADE—PERFECT WOODSMAN NOT hi-speed, 500 Palma $60.00, very good Winchester 57 Target $25.00. New Lyman 48WJS $11.50. Want Perfect Remington 513S or Winchester 75S with Weaver 29S or Varmint scope, also perfect 29S with B mounts for Krag. E. L. Williams, 1321 Medical Arts Bldg., Houston 2, Texas.

SELL OR TRADE—MODEL 54, 220 SWIFT, FINE custom stock, altered safety, Lyman 48, Hensoldt Ziel-Dialyt 4X scope in Niedner quick detachable mount, 160 hand and 260 factory loads, beautiful gun, excellent condition, $250.00. Winchester 52 Sporter, Redfield receiver iron sight and Lyman Alaskan scope in Stoegers quick detachable mount, perfect and very accurate, $200.00. B.S.A. Martini action 22 single shot rifle, model 12, with #30 sight described in 1940 Stoeger's catalog, priced $125.00 excellent, $85.00. Browning O.U. 28", full and modified, ventilated rib, single trigger, perfect, $150.00. L. C. Smith trap grade 32" double, ventilated rib, Hunter single selective trigger, automatic ejectors, beavertail forearm, Noske recoil pad, very good, $125.00. Parker 28" double Damascus barrel trap gun DHE grade, skelton butt plate, no safety, beautiful light straight stock, outside recently refinished barrels at factory, excellent outside almost excellent inside, for collectors only, $55.00. Lyman 438 scope and mounts excellent, $20.00. 500, 30-06, 33 and 35 issue cartridges, $30.00. Will consider taking in trade Kit gun, Magnum, flat top Bisley, 348 Winchester, fine camera such as Linhof or lens. A. F. Roddy, 518 Hamilton Bank Bldg, Chattanooga 2, Tennessee.

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TRADE—FACTORY CARTRIDGES: 7 MM., .257, .348; also 7mm., .30-'06 cases to trade on .30-'06 cartridges only. John McGuire, Box 471, Cumberland, Md.

TRADE—EXCELLENT 52 BULL GUN, BOUGHT new December 1944, shot 500 rounds, Marble-Goss rear, no front. WANT—Late 37 Remington or .52 heavy barrel. C. Cruikshank's, 2035 Broadway, Gary, Indiana.

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TRADE—45 NS 7½, .38 SPECIAL OFFICIAL Police and M&P, shells, Lyman 5A and 438 Field, Winchester 97, 12-gauge with Weaver, all good or better. WANTED—32 S&WL factory wadcutter, Model 70, .30-'06, .270. - N. M. George, Box 206, Riverhead, New York.

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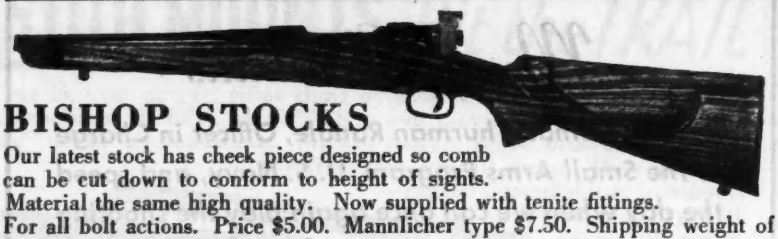

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WANTED—PACIFIC TOOL COMPLETE WITH any caliber dies. Following dies wanted: .357 Magnum; .30-'06; .30-40, .220 Swift, .32 Special. Ideal #6 Powder Measure, set of Powder Scales, Ideal Lubricator and Sizer, any caliber. Also lubricator sizing dies for .357 Magnum. Milton R. Elmer, East Middlebury, Vermont. 12-44

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WANTED—IDEAL SIZER AND LUBRICATOR .357-.358. Will trade perfect .38-44 heavy duty for perfect .38-44 Outdoorsman. A. E. Patterson, 6810—28th Avenue, N. W., Seattle, Washington.

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WANTED—TWO BOXES OF FACTORY MADE .45 Colt revolver cartridges. Lawrence S. Cannon, Deep Springs, Inyo County, California.

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WANTED—CROSSMAN .22 CALIBER AIR RIFLE, late model, excellent to perfect, at a reasonable price. Dan Corcoran, Jr., Oskaloosa, Iowa.

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WANTED—POOR TO FAIR 1917 COLTS, S&W'S, N.S.'s, S.A.A.'s, price reasonable; not for resale. Randall Goff, 35 Rumstick, Barrington, R. I.

BOOKS WANTED—SAWYER'S MARTIAL PISTOLS; British Textbook, 1929; Farrow's American Small Arms; Norton's Small Arms; Pollard's History Firearms; Stockbridge's Digest of Patents; Burrard's Modern Shotgun, vol. 1; all books on old arms. J. Ventuella, 3646 South Hamilton Ave., Chicago, 9, Illinois.

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WANTED—HENSLEY .45 CRAWFORD AND .38 #50 moulds, large caliber Winchester Hi-side Walther .22 PPK. B&L Prismatic scope. N. M. Starguaged Springfield. B. B. Skor, Camp Dennison, Ohio.

WANTED—SMITH & WESSON MASTERPIECE, Outdoorsman, .44 target, .22 rifles, primers, .44 Special & .300 Magnum cases. J. W. Landon, Box 6425, Pittsburgh, Penna.

WANTED—MODEL 70, .30-'06 STANDARD RIFLE, excellent or better. Earl Leverich, 26 New Street, Mountain View, New Jersey.

WANTED—200 FACTORY LOADED .30-'06 cartridges. State make, bullet weight, price, quantity. Thomas Higgins, 13 Michael Drive, Trenton, New Jersey.

WANTED—AIR PISTOL, LYMAN 438, AMMUNITION, cases for .38-55, Hornet 2R, .25 ACP, .45 ACP. Buy, trade. Randall Goff, 35 Rumstick, Barrington, R. I.

WANTED—30-06 SPRINGFIELD OR ENFIELD as issued, also bayonets. Robert Abels, 860 Lexington Ave., New York, 21, N. Y. 1-45

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WANTED—WOULD LIKE TO BUY A FEW OLD guns including Sharps .45-90, Colt or Remington Long barrel, Ed Frontiers and early cartridge carbines. R. Ellithorpe, 2927 Rollingwood Drive, Richmond, Calif.

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WANTED—22 HORNET, 218 BEE, .25-20, .250-3000, .270, .30-40, 22 Varminter, binoculars, scopes, and cameras. 52, 54, 70, 75, 95 Winchester, Remington Express, Mauser, Enfield, Springfield, actions or rifles, Pacific dies, powder and primers, chambering tools, rifling leads. Am also interested in a rifle barrel making machine and tools of any kind. O. H. Harms, 615-8th Avenue South, Nampo, Idaho.

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WANTED—30S REMINGTON .30-'06, VERY good or better. C.O.D. examination privileges. Alex Fader, 305 N. 2nd Avenue, Upland, California.

WANTED—357 S&W MAGNUM, EXCELLENT. 6 or 6½ inch barrel, King full ventilated rib, King luminous red ⅛ inch Patridge front sight, King click adjustable rear sight, short action hammer throw, trigger pull 2½ lbs. E. W. Strother, 938 DuPont Building, Miami, Florida.

WANTED—12-GAUGE, 28" CYLINDER, FULL, ejector, single trigger, perfect. Cash. Edward Johnson, R. F. D. 1, Sparta, Wisconsin.

WANTED—GOOD 20-POWER SPOTTING SCOPE with or without stand. WILL TRADE or SELL 300 rounds .38 Special cartridges, new. Ed. Rosing, 741 Gough Street, San Francisco 2, California.

WANTED—BELGIUM BROWNING 12-GAUGE automatic, .45 N.M. Automatic, Browning .20 Automatic or Remington M31, 20. E. G. Brust, 518 No. 11th Avenue, Melrose Park, Illinois.

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WANTED — MAUSER AUTOMATIC PISTOL, model of 1932, with 20 shot detachable magazine, also Spanish imitations, the 7.63mm. Astra and Super Azul. Lt. W. G. Ogden, Ordnance Dept. Rt. #1, Oak Harbor, Ohio.

WANTED—LOW PRICED 30-06 FOR COYOTES, state condition, former member. Donald Williams, Long Island, Kansas.

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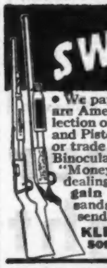

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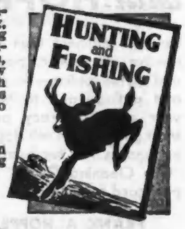

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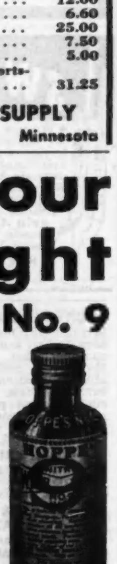

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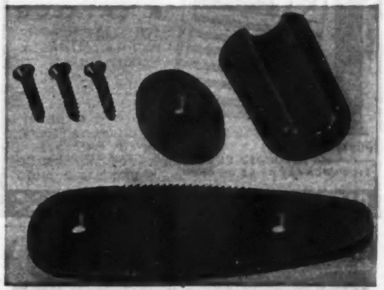

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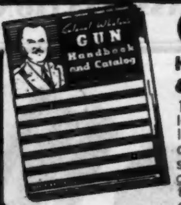

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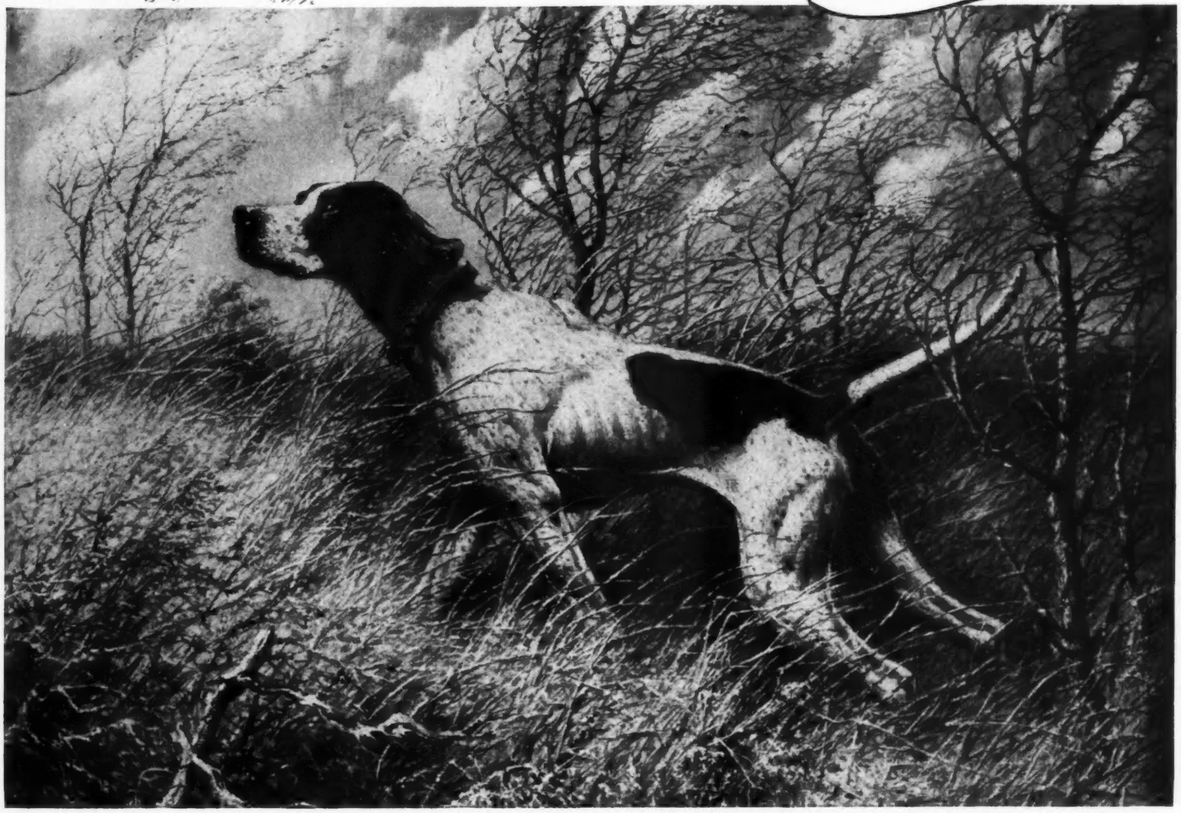

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